



Research Article

On a collection of Orthoptera (insecta) from Gurughasidas National park, Koriya and Surguja districts of Chhattisgarh, India

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Abstract: The paper deals with the study of faunal diversity of Orthoptera of Gurughasidas National Park, Koriya and Surguja district state of Chhattisgarh. Altogether 56 species pertaining to 50 genera under seven families are reported for the first time from the National Park, of which five species *i.e.* *Acorypha glaucopsis* (Walker), *Aularches miliaris miliaris* (Linnaeus), *Turanogryllus histrio* (Saussure), *Conocephalus (Chloroxiphidion) laetus* (Redtenbacher), *Letana infurcata* Ingrisch, are recorded for the first time from Chhattisgarh state.

Keywords: Orthoptera, Gurughasidas National Park, Chhattisgarh, India.

Abbreviation: National Park: NP, Rest House: RH

INTRODUCTION

The notable work on Orthoptera diversity in Chhattisgarh is available through the various workers. Shishodia (2000) reported 77 species under 61 genera and 12 families from Bastar, Chhattisgarh. Chandra *et.al.*, (2007) included 84 species of Orthoptera

from Chhattisgarh. Gupta & Chandra (2010) worked on Orthoptera fauna of Achanakmar Wildlife Sanctuary, Chhattisgarh and reported 64 species belonging to 57 genera under 8 families. Gupta & Chandra (2013) studied on Orthoptera fauna of Barnawapara Wildlife Sanctuary, Chhattisgarh, and dealing with 73 species pertaining to 62 genera under 8 families. Shishodia *et. al.* (2010) published annotated checklist of Orthoptera in India, where in 81 species were included from Chhattisgarh. Chandra and Gupta (2011) published 154 species of Orthoptera from Madhya Pradesh and Chhattisgarh, of which 101 species from Chhattisgarh. Gupta and Shishodia (2014) reported 80 species of Orthoptera from Achanakmar Amarkanatak Biosphere Reserve in Madhya Pradesh and Chhattisgarh.

During the recent extensive and intensive survey of Gurughasidas National Park from 2011 to 2014, a total 56 species and subspecies pertaining to 50 genera under seven families viz. Acrididae 30 species 28 genera, Pyrgomorphidae 3 species 3 genera, Tetrigidae 4 species 3 genera, Gryllidae 8

species 8 genera, Trigonidiidae 1 species 1 genus, Gryllotalpidae 1 species 1 genus, Tettigoniidae 10 species 7 genera were collected. All the species are reported for the first time from Gurughasidas National Park, and the species which are new addition to the Chhattisgarh state are marked with an asterisk (*). The systematic account, details of material collected, co-ordinates and geographic distribution of all the species in this national park are also incorporated.

MATERIALS AND METHODS

Study area

The present study was carried out in Gurughasidas National Park is located in the northern part of Chhattisgarh in Koriya and Surguja districts. The area of the National Park is about 2898.70 sq. km., which lies between latitudes 23°30'13.815" N to 23°52'16.087" N and longitudes 81°49'29.890"E to 82°44'20.117"E. The major forest type is moist deciduous and the flora of the park comprises chiefly of *Shorea robusta* with other deciduous species like *Haldina cordifolia*, *Embllica officinalli*, *Terminalia tomentosa*, *Tectona grandis*, *Terminalia chebula*, *Madhuca sp.*, *Woodfordia sp.*, etc.

Methods

The specimens were collected by sweeping over vegetation by insect net, and the larger specimens were picked up directly by hand or with the help of fine forceps. The specimens after collection from the field were killed in benzene or ethyl acetate in a killing bottle. For temporary storage in the field they were kept in insect envelopes. The specimens were brought to laboratory and pinned, labeled and preserved for the identification. Survey site co-ordinates were recorded using GPS (Garmin Oregon 550). The identified specimens were deposited in National Zoological Collection, Zoological Survey of India, Kolkata.

Collection localities: The list of collection localities along with latitude, longitude and altitude from the Gurughasidas National Park: Beliya forest, 23°28'38.6"N, 82°32'16.2"E, Altitude 790m. Berdev Nala, 23°44'25.3"N, 82°24'54.7"E, Altitude 471m. Chilka Beat, 23°40'10.2"N, 82°14'33.5"E, Altitude 427m. Devnala, 23°35'52.8"N, 82°29'10.3"E, Altitude 543m. Ghatoriya pahad, 23°32'18.7"N, 82°38'46.6"E, Altitude 536m. Jalpani Forest, Jalpani 23° 45'49.6"N, 82°09'13.4"E, Altitude 604m. Kailashpur, 23°27'38.9"N, 82° 30'49.1"E, Altitude 716m. Ketakijharia 23° 20' 23.0"N, 82°29'15.3"E, Altitude 812m. Ramghat 23°43'18.9"N, 82°36'09.2"E, Altitude 274m. Kalsi Area, 23°14'16.3"N, 82°22'46.2"E, Altitude 649m. Kotadol, 23°43'30.1"N, 82°31'48.8"E, Altitude 495m. Pipertala Forest, 22° 08' 55.6"N, 81°06'80.1"E, Altitude 769. Rawanpat, 23°48'19.3"N, 82°36'18.4"E, Altitude 678m. Rewala, 23°35'52.8"N, 82°24'10.3"E, 467m. Ramgarh, 23°38'45.7"N, 82°21'15.8"E, Altitude 490m. Sukhmaria Nala, 22°28'48.3"N, 82°35'29.7"E, Altitude 337m. Sonhut RH. 23°28'32.7"N, 82°31'35.9"E, Altitude 690m. Thitima Pahad, 23°44'27.7"N, 82°29'57.5"E, Altitude 692m. Kamarjee 23°43'29.8"N, 82°3'49.8"E, Altitude 594m. Janakpur, 23°43'24.5"N, 81°46'58.1"E, Altitude 555m. Khohir, 23°46'33.1"N, 82°34'48.3"E, Altitude 692m. Uraonpara village, 23°28'9.3"N, 82°30'46.8"E, Altitude 720m. Baijanpat 23°47'58.7"N, 82°34'36.9"E, Altitude 319m

SYSTEMATIC ACCOUNT

Order ORTHOPTERA

Suborder CAELIFERA

Infraorder ACRIDIDEA

Superfamily ACRIDOIDEA

Family ACRIDIDAE

Subfamily ACRIDINAE

Genus *Acrida* Linnaeus, 1758

1. *Acrida exaltata* (Walker, 1859)

1859. *Truxalis exaltata* Walker, *Ann. Mag. nat. Hist.*, 4 (3): 222.

2010. *Acrida exaltata*, Shishodia *et al. Rec. zool. Surv. India*, Occ. Paper No. 314:15-16.

Material examined: Chhattisgarh, Koriya, Gurughasidas NP; Kamarjee, 3.viii.2011, 1(♀) coll. A. Raha & party.

Distribution in Chhattisgarh: Bastar, Bilaspur, Koriya and Raipur.

2. *Acrida gigantea* (Herbst, 1794)

1794. *Truxalis gigantea* Herbst, *Fuessly Archiv.*: 173.

2008. *Acrida gigantea*, Shishodia, In Faunal Diversity of Jabalpur district, Madhya Pradesh, *Zool. Surv. India*: 97.

Material examined: Chhattisgarh, Koriya, Gurughasidas NP; Ramghat, 06.xi.2011, 1(♀); Thithima Pahad, 28.xi.2013, 1(♀) coll. A. Parida.

Distribution in Chhattisgarh: Koriya and Raipur.

Genus *Phlaeoba* Stål, 1860

3. *Phlaeoba panteli* Bolivar, 1902

1902. *Phlaeoba panteli* Bolivar, *Annl. Soc. ent. Fr.*, 70 : 581.

Material examined: Chhattisgarh, Koriya, Gurughasidas NP; Kamarjee, 5.viii.2011, 1(♀); Ramgarh, 9.ix.2011, 1(♀) coll. A. Raha & party.

Distribution in Chhattisgarh: Bilaspur, Koriya and Raipur.

Subfamily CALLIPTAMINAE

Genus *Acorypha* Krauss, 1877

4. *Acorypha glaucopsis* (Walker, 1870)*

1870. *Caloptenus glaucopsis* Walker, *Cat. Derm. Salt. Brit. Mus.*, 4 : 702.

2010. *Acorypha glaucopsis*, Shishodia *et al. Rec. zool. Surv. India*, Occ. Paper No. 314: 23.

Material examined: Chhattisgarh, Koriya, Gurughasidas NP; Jalapani, 11.v.2013, 1(♀) coll. A. Parida.

Distribution in Chhattisgarh: Koriya.

Remarks: This species is first time record from Chhattisgarh state.

Subfamily CATANTOPINAE

Genus *Diabolocatantops* Jago, 1984

5. *Diabolocatantops innotabilis* (Walker, 1870)

1870. *Acridium innotabile* Walker, *Cat. Derm. Salt. Brit. Mus.*, 4: 629.

2010. *Diabolocatantops innotabilis*, Shishodia *et al. Rec. zool. Surv. India*, Occ. Paper No. 314: 39.

Material examined: Chhattisgarh, Koriya, Gurughasidas NP; Kontai Beat, 19.xi.2011, 1(♀); Beliya Forest, 17.v.2012, 1(♂); Ketakijharia, 10.x.2011, 1(♀); 6.xi.2011, 2(♀) coll. A. Raha & party.

Distribution in Chhattisgarh: Bastar, Bilaspur, Koriya and Raipur.

Genus *Pachyacris* Uvarov, 1923

6. *Pachyacris vinosa* (Walker, 1870)

1870. *Acridium vinosum* Walker, *Cat. Derm. Salt. Brit. Mus.*, 4: 587.

2006. *Pachyacris vinosa*, Shishodia & Dey, *State Fauna Series 12: Fauna of Nagaland*, *Zool. Surv. India* : 107.

Material examined: Chhattisgarh, Koriya, Gurughasidas NP; Ramgarh, 9.xi.2011, 1(♀); Ketakijharia 10.x.2011, 1(♀) coll. A. Raha & party.

Distribution in Chhattisgarh: Bastar, Bilaspur, Koriya and Raipur.

Genus *Stenocatantops* Dirsh & Uvarov, 1953

7. *Stenocatantops splendens* (Thunberg, 1815)

1815. *Gryllus splendens* Thunberg, *Mem. Acad. Sci. St. - Petersb.*, 5 : 236.

2000. *Stenocatantops splendens* Shishodia & Tandon, *State Fauna Series 7: Fauna of Tripura*, Part 2, *Zool. Surv. India* : 210.

Material examined: Chhattisgarh, Koriya, Gurughasidas NP, Sonhut RH, 24.iv.2013, 1(♂) coll. A. Raha & party.

Distribution in Chhattisgarh: Bastar, Bilaspur, Koriya and Raipur.

Genus *Xenocatantops* Dirsh & Uvarov, 1953

8. *Xenocatantops karnyi* (Kirby, 1910)

1910. *Catantops karnyi* Kirby, *Syn. Cat. Orth.* **3** : 483

2007. *Xenocatantops karnyi*, Mandal & Yadav, *State Fauna Series 5 : Fauna of Andhra Pradesh*, Part 3. *Zool. Surv. India*, : 220.

Material examined: Chhattisgarh, Koriya, Gurughasidas NP; Kailashpur, 15.v.2012, 1(♂) coll. A. Raha & party.

Distribution in Chhattisgarh: Bastar, Bilaspur, Koriya and Raipur.

Subfamily COPTACRIDINAE

Genus *Eucoptacra* Bolivar, 1902

9. *Eucoptacra praemorsa* (Stål, 1860)

1860. *Acridium (Catantops?) praemorsum* Stål, *Kongl. Svensk. Fregat Eugen. Res.*, Omkring Jorden, 3 : 330.

2010. *Eucoptacra praemorsa*, Shishodia *et al.*, *Rec. zool. Surv. India*, Occ. Paper No. 314 : 48.

Material examined: Chhattisgarh, Koriya, Gurughasidas NP; Kotadol, 4.viii.2011, 1(♀) coll. A. Parida.

Distribution in Chhattisgarh: Bastar, Bilaspur, Koriya and Raipur.

Subfamily CYRTACANTHACRIDINAE

Genus *Cyrtacanthacris* Walker, 1870

10. *Cyrtacanthacris tatarica* (Linnaeus, 1758)

1758. *Gryllus locusta tataricus* Linnaeus, *Systema Naturae per Regna Tria naturae*, (10th ed.) : 32.

2000. *Cyrtacanthacris tatarica*, Shishodia, *Rec. zool. Surv. India*. 98 (1) : 58.

Material examined: Chhattisgarh, Koriya, Gurughasidas NP; Khohir, 17.viii.2011, 1(♂) coll. A. Raha & party.

Distribution in Chhattisgarh: Bastar, Bilaspur and Raipur.

Subfamily EYPREPOCNEMIDINAE

Genus *Eyprepocnemis* Fieber, 1853

11. *Eyprepocnemis rosea* Uvarov, 1942

1942. *Eyprepocnemis rosea* Uvarov, *Ann. Mag. nat. Hist.*, 9 (11) : 597.

1999. *Eyprepocnemis rosea*, Shishodia, *Rec. zool. Surv. India*, 97(4) : 40-42.

Material examined: Chhattisgarh, Koriya, Gurughasidas NP; Kailashpur, 15.v.2012, 2(♂); Thitima Pahad, 28.ix.2013, 2(♂) coll. A. Parida.

Distribution in Chhattisgarh: Bilaspur and Koriya.

12. *Eyprepocnemis alacris alacris* (Serville, 1839)

1839. *Acridium alacre* Serville, *Ins. Orth.*, : 682.

2010. *Eyprepocnemis alacris alacris*, Shishodia *et al.* *Rec. zool. Surv. India*, Occ. Paper No. 314 : 56.

Material examined: Chhattisgarh, Koriya, Gurughasidas NP; Chilka Beat, 27.ix.2011, 1(♀); Kailashpur, 15.v.2012, 1(♀); Sukhmariya Nala, 13.xii.2013, 1(♀) coll. A. Raha & party.

Distribution in Chhattisgarh: Bastar, Bilaspur, Raipur and Koriya.

Genus *Tylotropidius* Stål, 1860

13. *Tylotropidius varicornis* (Walker, 1870)

1870. *Heteracris varicornis* Walker, *Cat. Derm. Salt. Brit. Mus.*, 4 : 667.

2000. *Tylotropidius varicornis*, Shishodia, *Rec. zool. Surv. India*, 98(1) : 60.

Material examined: Chhattisgarh, Koriya, Gurughasidas NP; Ramghat, 6.xi.2011, 1(♀); Kontai Beat, 19.xi.2011, 2(♂) coll. A. Raha & party.

Distribution in Chhattisgarh: Bastar, Bilaspur, Koriya and Raipur.

Subfamily GOMPHOCERINAE

Genus *Aulacobothrus* Bolivar, 1902

14. *Aulacobothrus luteipes luteipes* (Walker, 1871)

1871. *Stenobothrus luteipes* Walker, *Cat. Derm. Salt. Brit. Mus.*, 5 : 82.

1993. *Aulacobothrus luteipes luteipes* Ingrisch, *Ent. Scand.*, 24 (3) : 321.

Material examined: Chhattisgarh, Koriya Gurughasidas NP; Kamarjee, 5.viii.2011, 1(♀); 10.x.2011, 1(♀); Khohir, 17.viii.2011, 1(♀) coll. A. Raha & party.

Distribution in Chhattisgarh: Bastar, Koriya and Raipur.

Genus *Gelastorhinus* Brunner, 1903

15. *Gelastorhinus laticornis* (Serville, 1839)

1839. *Opomala laticornis* Serville, *Ins. Orth.*, : 590.

1914. *Gelastorhinus laticornis*; Kirby, *Fauna Brit. India, Orth.*, : 118.

2010. *Gelastorhinus laticornis*, Shishodia *et al. Rec. zool. Surv. India*, Occ. Paper No. 314 : 61.

Material examined: Chhattisgarh, Koriya, Gurughasidas NP; Ramgarh, 9.ix.2011, 3(♀) coll. A. Raha & party.

Distribution in Chhattisgarh: Bilaspur and Koriya.

Genus *Leva* Bolivar, 1909

16. *Leva indica* (Bolivar, 1902)

1902. *Gymnobothrus indicus* Bolivar, *Ann. Soc. ent. Fr., Paris*, 70 : 596.

2010. *Leva indica*, Shishodia *et al. Rec. zool. Surv. India*, Occ. Paper No. 314 : 62.

Material examined: Chhattisgarh, Koriya, Gurughasidas NP; Kotadol, 10.v.2013, 3(2♂,1♀) coll. A. Parida.

Distribution in Chhattisgarh: Bastar, Bilaspur and Koriya.

Subfamily HEMIACRIDINAE

Genus *Clonacris* Uvarov, 1943

17. *Clonacris kirbyi* (Finot, 1903)

1903. *Euthymia kirbyi* Finot, *Ann. Soc. ent. Fr., Paris*, 71: 622.

1976. *Clonacris kirbyi*, Tandon, *Rec. zool. Surv. India*, Occ. Pap. No., 3: 10.

Material examined: Chhattisgarh, Koriya, Gurughasidas NP; Ramgarh, 1.viii.2011, 1(♂); Surguja, Baijanpat, 16.viii.2011, 1(♂) coll. A. Raha & party.

Distribution in Chhattisgarh: Bilaspur, Koriya, Raipur and Surguja.

Genus *Hieroglyphus* Krauss, 1877

18. *Hieroglyphus banian* (Fabricius, 1798)

1798. *Gryllus banian* Fabricius, *Entomologia systematica Suppl.*, : 194.

1914. *Hieroglyphus banian*, Kirby, *Fauna Brit. India, Orth.*, : 204.

Material examined: Chhattisgarh, Koriya, Gurughasidas NP; Ramgarh, 9.xi.2011, 1(♀) coll. A. Raha & party.

Distribution in Chhattisgarh: Koriya and Raipur.

Subfamily OEDIPODINAE

Genus *Acrotylus* Fieber, 1853

19. *Acrotylus humberianus* Saussure, 1884

1884. *Acrotylus humberianus* Saussure, *Mem. Soc. Phys. Hist. nat. Geneve*, 28 (9) : 189.

2000. *Acrotylus humberianus*, Shishodia, *Rec. zool. Surv. India*, 98 (1): 49.

Material examined: Chhattisgarh, Koriya, Gurughasidas NP; Khojir, 7.viii.2011, 1(♂); 17.viii.2011, 1(♀); Kotadol Forest, 10.v.2013, 1(♂) coll. A. Raha & party.

Distribution in Chhattisgarh: Bastar, Bilaspur and Koriya.

Genus *Aiolopus* Fieber, 1853

20. *Aiolopus thalassinus tamulus* (Fabricius, 1798)

1798. *Gryllus tamulus* Fabricius, *Entomologia systematica Suppl.*, : 195.

1968. *Aiolopus thalassinus tamulus* Hollis, *Bull. Br. Mus. nat. Hist., (Ent.)*, 22 (7) : 347.

Material examined: Chhattisgarh, Koriya, Gurughasidas NP; Sonhut RH, 21.iv.2013, 4(2♂,2♀); 24.iv.2013, 5(3♂,2♀); 10.vii.2013, 2(1♂,1♀); Kalsi Area, 19.iii.2012, 1(♀); Kotadol, 10.v.2013, 2(♀); Thitima Pahad, 24.ix.2013, 2(♀); 28.ix.2013, 2(♀); 24.x.2013, 1(♀); Rawanpat, 23.x.2013, 1(♀); Berdev Nala, 17.xi.2013, 1(♀); Sukhmaria Nala, 13.xii.2013, 1(♂) coll. A. Parida.

Distribution in Chhattisgarh: Bastar, Bilaspur, Koriya and Raipur.

Genus *Gastrimargus* Saussure, 1884

21. *Gastrimargus africanus africanus* (Saussure, 1888)

1888. *Oedaleus (Gastrimargus) marmoratus* var. *africana* Saussure, *Mem. Soc. Phys. Hist. nat. Geneve*, 30 (1) : 39.

2006. *Gastrimargus africanus africanus*, Shishodia, *Bionotes*, 8 (1) : 11.

Material examined: Chhattisgarh, Koriya, Gurughasidas NP; Kamarjee, 5.viii.2011, 1(♂) coll. A. Raha & party; Sonhut RH, 12.v.2012, 4(3♂, 1♀); 10.vii.2013, 4(2♂, 2♀); 11.vii.2012, 1(♂); Kailashpur, 15.v.2012, 1(♂); Ketakijharia 10.x.2011, 1(♂, DC); Ramghat, 6.xi.2011, 1(♀); Uraonpara village, 8.v.2012, 1(♂); 21.v.2012, 1(♂); 22.v.2012, 1(♂); Kailashpur, 15.v.2012, 1(♂); Beliya forest, 17.v.2012, 1(♂); Thitiama Pahad, 28.ix.2013, 1(♂) coll. A. Parida.

Distribution in Chhattisgarh: Bastar, Bilaspur, Koriya and Raipur.

Genus *Dittopternis* Saussure, 1884

22. *Dittopternis venusta* (Walker, 1870)

1870. *Oedipoda venusta* Walker, *Cat. Derm. Salt. Brit. Mus.*, 4 : 736.

2000. *Dittopternis venusta*, Shishodia, *Rec. zool. Surv. India*, 98 (1) : 50.

Material examined: Chhattisgarh, Koriya, Gurughasidas NP; Ramghat, 6.xi.2011, 1(♂); Ketakijharia 10.x.2011, 1(♀) coll. A. Parida.

Distribution in Chhattisgarh: Bastar, Bilaspur, Koriya and Raipur.

Genus *Oedaleus* Fieber, 1853

23. *Oedaleus abruptus* (Thunberg, 1815)

1815. *Gryllus abruptus* Thunberg, *Mem. Acad. Sci. St. Petersburg*. 5 : 233.

1990. *Oedaleus abruptus*, Shishodia & Mandal, *Rec. zool. Surv. India*, 87 (1) : 70.

Material examined: Chhattisgarh, Koriya, Gurughasidas NP; Kamarjee, 5.viii.2011, 2(♀); Sonhut RH, 24.iv.2013, 2(♀, DC); Kotadol, 10.v.2013, 5(4♂, 1♀NC); Uraonpara village, 8.v.2012, 2(♀) coll. A. Parida.

Distribution in Chhattisgarh: Bastar, Bilaspur, Koriya and Raipur.

Genus *Trilophidia* Stål, 1873

24. *Trilophidia annulata* (Thunberg, 1815)

1815. *Gryllus annulatus* Thunberg, *Mem. Acad. Sci. St. Petersburg*. 5: 234.

1990. *Trilophidia annulata*, Shishodia & Mandal *Rec. zool. Surv. India*, 87 (1): 70.

Material examined: Chhattisgarh, Koriya, Gurughasidas NP; Ramghat, 8.v.2012, 1(♀); Beliya forest, 17.v.2012, 1(♂); Sonhut RH, 19.v.2012, 1(♀); 21.iv.2013, 1(♂); Rewala, 9.xii.2013, 1(♀); Kotadol, 10.v.2013, 2(♂) coll. A. Parida.

Distribution in Chhattisgarh: Bastar, Bilaspur, Koriya and Raipur.

Genus *Morphacris* Walker, 1870

25. *Morphacris fasciata* (Thunberg, 1815)

1815. *Gryllus fasciatus* Thunberg, *Mem. Acad. Sci. St. Petersburg.*, 5: 230.

2000. *Morphacris fasciata sulcata*, Shishodia, *Rec. zool. Surv. India*, 98 (1): 50.

Material examined: Chhattisgarh, Koriya, Gurughasidas NP; Ramghat, 6.xi.2011, 1(♂); Kotadol forest, 10.v.2013, 1(♀); Beliya Forest, 17.v.2012, 1(♀) coll. A. Parida.

Distribution in Chhattisgarh: Bastar, Bilaspur, Koriya and Raipur.

Genus *Heteropternis* Stål, 1873

26. *Heteropternis respondens* (Walker, 1859)

1859. *Acrydium respondens* Walker, *Ann. Mag. nat. Hist.*, 4 (3) : 223.

2006. *Heteropternis respondens*, Shishodia & Dey, *State Fauna Series*, 12 : *Fauna of Nagaland*, Zool. Surv. India.: 100.

Material examined: Chhattisgarh, Koriya, Gurughasidas NP; Jalpani Forest, 11.v.2013, 1(♂) coll. A. Parida.

Distribution in Chhattisgarh: Bilaspur, Koriya and Raipur.

Subfamily OXYINAE

Genus *Oxya* Serville, 1831

27. *Oxya hyla hyla* Serville, 1831

1831. *Oxya hyla* Serville, *Ann. Sci. nat. (Zool.)*, Paris, 22 : 287.

2010. *Oxya hyla hyla*, Shishodia *et al. Rec. zool. Surv. India*, Occ. Paper No. 314 : 109.

Material examined: Chhattisgarh, Koriya, Gurughasidas NP; Kontai Beat, 19.xi.2011, 1(♀); Mainpat, 20.xi.2011, 1(♀); Jalpani Forest, 11.v.2013, 1(♂) coll. A. Parida.

Distribution in Chhattisgarh: Bastar, Bilaspur, Koriya and Raipur.

Subfamily SPATHOSTERNINAE

Genus *Spathosternum* Krauss, 1877

28. *Spathosternum prasiniferum prasiniferum* (Walker, 1871)

1871. *Heteracris* (?) *prasiniferum* Walker, *Cat. Derm. Salt. Brit. Mus.*, 5 : 65.

2010. *Spathosternum prasiniferum prasiniferum*, Shishodia *et al.*, *Rec. zool. Surv. India*, Occ. Paper No. 314 : 114.

Material examined: Chhattisgarh, Koriya, Gurughasidas NP; Sonhut, RH, 22.iii.2012, 6(1♂, 5♀); 5.v.2013, 6(♂); 21.iv.2013, 21.iv.2013, 16(10♂, 6♀); Beliya Forest, 17.v.2012, 1(♀); Ghatoriya pahad, 28.vi.2013, 2(♂, ♀); 28.xi.2013, 3(♂); Ravanapat, 23.x.2013, 9(7♂, 2♀); Thitima Pahad, 24.x.2013, 5(4♂, 1♀); 28.xi.2013, 6(4♂, 2♀); Berdev Nala, 17.xi.2013, 6(♂); Rewala, 9.xii.2013, 6(5♂, 1♀); Devnala, 9.xii.2013, 1(♂) coll. A Parinda.

Distribution in Chhattisgarh: Bastar, Bilaspur, Koriya and Raipur.

Genus *Teratodes* Brullè, 1835

29. *Teratodes monticollis* (Gray, 1832)

1832. *Gryllus monticollis* Gray, In *E. Griffith, The Animal Kingdom, Insecta, Notice of new genera and species*, vol. xv. London, Whiteaker, Treacher, a Co., *Orthoptera* : 215.

2010. *Teratodes monticollis*, Shishodia *et al.*, *Rec. zool. Surv. India*, Occ. Paper No. 314 : 116.

Material examined: Chhattisgarh, Koriya, Gurughasidas NP; Sonhut RH, 10.vii.2013, 1(♀) coll. A. Parida.

Distribution in Chhattisgarh: Bastar, Bilaspur, Koriya and Raipur.

Superfamily PYRGOMORPHOIDEA

Family PYRGOMORPHIDAE

Subfamily PYRGOMORPHINAE

Genus *Atractomorpha* Saussure, 1862

30. *Atractomorpha crenulata* (Fabricius, 1793)

1793. *Truxalis crenulatus* Fabricius, *Ent. Syst. II* : 28.

1914. *Atractomorpha crenulata*, Kirby, *Fauna Brit. India, Orth.*, : 181.

Material examined: Chhattisgarh, Surguja, Gurughasidas NP; Baijanpat 16.viii.2011, 1(♂); Koriya, Sonhat RH, 14.v.2012, 1(♂); 13.viii.2013, 1(♀); 21.iv.2013, 3(♂); 24.iv.2013, 1(♂, 2♀); 5.viii.2013, 1(♀); 19.iii.2014, 1(♀); Kotadol, 10.v.2013, 1(♂); Jalpani, 11.v.2013, 3(♀) Berdev nala, 17.xi.2013, 3(2♂, 1♀); Rewala, 9.xii.2013, 1(♂) coll. A. Parida.

Distribution in Chhattisgarh: Bastar, Bilaspur, Koriya, Raipur and Surguja.

Genus *Chrotogonus* Serville, 1838

Subgenus *Chrotogonus* Serville, 1838

31. *Chrotogonus trachypterus trachypterus* (Blanchard, 1836)

1836. *Ommexecha trachypterus* Blanchard, *Ann. Soc. ent. France*, 5 : 618.

2010. *Chrotogonus (Chrotogonus) trachypterus trachypterus*, Shishodia *et al.*, *Rec. zool. Surv. India*, Occ. Paper No. 314 : 134.

Material examined: Chhattisgarh, Koriya, Gurughasidas NP; Sonhut RH, 1.viii.2011, 1(♂); 11.viii.2011, 1(♂); Khohir, 17.viii.2011, 6(♀); Kotadol Forest, 10.v.2013, 1(♀); Kamarjee, 5.viii.2011, 2(♀) coll. A. Parida.

Distribution in Chhattisgarh: Bastar, Bilaspur, Koriya and Raipur.

Genus *Aularches* Stål, 1873

32. *Aularches miliaris miliaris* (Linnaeus, 1758)*

1758. *Gryllus (Locusta) miliaris* Linnaeus, *Systema Naturae per Regna Tria naturae*, (10th ed.) : 432.

2010. *Aularches miliaris miliaris*, Shishodia et al., *Rec. zool. Surv. India*, Occ. Paper No. 314 : 139.

Material examined: Chhattisgarh, Koriya, Gurughasidas NP; Sonhut RH, 14.vi.2014, 1(♀) coll. A. Parida.

Distribution in Chhattisgarh: Koriya.

Remark : This species is first time record from Chhattisgarh State.

Superfamily TETRIGOIDEA

Family TETRIGIDAE

Subfamily SCHELIENINAE

Genus *Euscelimena* Günther, 1938

33. *Euscelimena harpago* (Serville, 1839)

1839. *Tetrix harpago* Serville, *Orthopteres*, : 763.

2005. *Euscelimena harpago* Kulkarni & Shishodia, *Conservation Area Series*, 24 : *Fauna of Melghat Tiger Reserve*, Zool. Surv. India, : 326.

Material examined: Chhattisgarh, Koriya, Gurughasidas NP; Sonhut RH, 1.viii.2011, 1(♂); Uraonpara, 8.v.2012, 6(2♂,4♀) coll. A. Parida.

Distribution in Chhattisgarh: Bilaspur, Koriya and Raipur.

Subfamily TETRIGINAE

Genus *Ergatettix* Kirby, 1914

34. *Ergatettix dorsiferus* (Walker, 1871)

1871. *Tettix dorsifera* Walker, *Cat. Derm. Salt. Brit. Mus.*, 5 : 825.

2010. *Ergatettix dorsiferus*, Shishodia et al. *Rec. zool. Surv. India*, Occ. Paper No. 314 : 165.

Material examined: Chhattisgarh, Koriya, Gurughasidas NP; Kamarjee, 5.viii.2011, 2(♂,♀); Janakpur, 13.viii.2011,1(♂); Khohir, 17.viii.2011, 2(♂); Uraonpara, 24.x.2011, 15(12♂,3♀) coll. A. Raha & party.

Distribution in Chhattisgarh: Bastar, Bilaspur, Koriya and Raipur.

Genus *Hedotettix* Bolivar, 1887

35. *Hedotettix attenuatus* Hancock, 1904

1904. *Hedotettix attenuatus* Hancock, *Spolia zeylan*, 2 : 151.

2010. *Hedotettix attenuatus*, Shishodia et al. *Rec. zool. Surv. India*, Occ. Paper No. 314 : 167.

Material examined: Chhattisgarh, Koriya, Gurughasidas NP; Uraonpara, 3(2♂,1♀) coll. A. Raha & party.

Distribution in Chhattisgarh: Bastar, Koriya and Raipur.

36. *Hedotettix gracilis* (Haan, 1843)

1842. *Acridium gracile* Haan, *Gesch. Ned. Overszee*. Bezitt, 2 : 169.

2010. *Hedotettix gracilis*, Shishodia et al., *Rec. zool. Surv. India*, Occ. Paper No. 314 : 169.

Material examined: Chhattisgarh, Koriya, Gurughasidas NP; Kamarjee, 5.viii.2011, 1(♀); Khojir, 17.viii.2011, 1(♂); Sonhut RH, 7.viii.2011,1(♂); Uraonpara, 24.x.2011, 1(♀) coll. A. Raha & party.

Distribution in Chhattisgarh: Bastar, Bilaspur, Koriya and Raipur.

SUBORDER ENSIFERA

Superfamily GRYLLOIDEA

Family GRYLLIDAE

Subfamily GRYLLINAE

Genus *Gryllodes* Sausse, 1874

37. *Gryllodes sigillatus* (Walker, 1869)

1869. *Gryllus sigillatus* Walker, *Cat. Derm. Salt. Brit. Mus.*, : 46.

2000. *Gryllodes sigillatus*, Shishodia, *Rec. zool. Surv. India*. 98 (1) : 67.

Material examined: Chhattisgarh, Koriya, Gurughasidas NP; Sonhut RH, 31.vii.2011, 2(1♂,1♀); Kamarjee, 5.viii.2011,1(♂) coll. A. Parida.

Distribution in Chhattisgarh: Bastar, Koriya and Raipur.

Genus *Modicogryllus* Chopard, 1961

Subgenus *Modicogryllus* Chopard, 1961

38. *Modicogryllus (Modicogryllus) confirmatus* (Walker, 1859)

1859. *Acheta confirmata* Walker, *Ann. Mag. nat. Hist.*, 4 (3) : 221.

2010. *Modicogryllus (Modicogryllus) confirmatus*, Shishodia et al., *Rec. zool. Surv. India*, Occ. Paper No. 314 : 220.

Material examined: Chhattisgarh, Koriya, Gurughasidas NP; Kamarjee, 5.viii.2011, 7(1♂, 6♀); Khojir, 17.viii.2011, 3(1♂, 2♀); Sonhut RH, 10.v.2012, 1(♀); 13.v.2012, 1(♂); 14.v.2012, 2 (♀); 21.v.2012, 2(♀); Kotadol, 10.v.2013, 7(2♂, 5♀); 10.ix.2013, 1(♂) coll. A. Parida.

Distribution in Chhattisgarh: Bastar, Bilaspur, Koriya and Raipur.

Genus *Teleogryllus* Chopard, 1961

Subgenus *Macroteleogryllus* Gorochov, 1988

39. *Teleogryllus (Macroteleogryllus) mitratus* (Burmeister, 1838)

1838. *Gryllus mitratus* Burmeister, *Handb. Ent.*, 2 : 34.

2010. *Teleogryllus (Macroteleogryllus) mitratus*, Shishodia et al., *Rec. zool. Surv. India*, Occ. Paper No. 314: 209

Material examined: Chhattisgarh, Koriya, Gurughasidas NP; Uraonpara village, 8.v.2012, 2(♀) coll. A. Parida.

Distribution in Chhattisgarh: Bilaspur and Koriya.

Genus *Gryllus* Linnaeus, 1758

Subgenus *Gryllus* Linnaeus, 1758

40. *Gryllus (Gryllus) bimaculatus* De Geer, 1773

1773. *Gryllus bimaculatus* De Geer, *Mem. Ins.*, 3 : 521.

2010. *Gryllus (Gryllus) bimaculatus*, Shishodia et al. *Rec. zool. Surv. India*, Occ. Paper No. 314 : 192.

Material examined: Chhattisgarh, Koriya, Gurughasidas NP; Sonhut RH, 12.vii.2013, 2(♀);

Distribution in Chhattisgarh: Bastar, Bilaspur, Koriya and Raipur.

Genus *Phonarellus* Gorochov, 1983

Subgenus *Phonarellus* Gorochov, 1983

41. *Phonarellus (Phonarellus) minor* Chopard, 1959

1959. *Gymnogryllus minor* Chopard, *Stuttg. Beitr. z. Naturk.*, : 1.

1967. *Gymnogryllus minor* Chopard, *Orth. Cat.*, 10 : 19.

2010. *Phonarellus (Phonarellus) minor*, Shishodia et al. *Rec. zool. Surv. India*, Occ. Paper No. 314 : 202.

Material examined: Chhattisgarh, Koriya, Gurughasidas NP; Sonhut RH, 12.vii.2013, 1(♂) coll. A. Parida.

Distribution in Chhattisgarh: Bastar, Bilaspur, Koriya and Raipur.

Genus *Turanogryllus* Tarbinskii, 1940

42. *Turanogryllus histrio* (Saussure, 1877)*

1877. *Gryllodes histrio* Saussure, *Mem. Soc. Geneve*, 25 : 229.

2010. *Turanogryllus histrio*, Shishodia et al. *Rec. zool. Surv. India*, Occ. Paper No. 314 : 261.

Material examined: Chhattisgarh, Koriya, Gurughasidas NP; Sonhut RH, 31.vii.2011, 1(♀) coll. A. Parida.

Distribution in Chhattisgarh: Koriya.

Remark : This species is first time record from Chhattisgarh State.

Subfamily NEMOBIINAE

Genus *Dianemobius* Vickery, 1973

43. *Dianemobius fascipes* (Walker, 1869)

1869. *Eneoptera fascipes* Walker, *Cat. Derm. Salt. Brit. Mus.*, : 67.

2010. *Dianemobius fascipes*, Shishodia et al., *Rec. zool. Surv. India*, Occ. Paper No. 314 : 240.

Material examined: Chhattisgarh, Koriya, Gurughasidas NP; Kamarjee range, 22.ix.2013, 5(1♂, 4♀) coll. A. Raha & party.

Distribution in Chhattisgarh: Bastar and Koriya.

Subfamily OECANTHINAE

Genus *Oecanthus* Serville, 1831

44. *Oecanthus indicus* Saussure, 1878

1878. *Oecanthus indicus* Saussure, *Mem. Soc. Phys. Hist. nat. Geneve*, 25 : 454.

2010. *Oecanthus indicus*, Shishodia et al.,
Rec. zool. Surv. India, Occ. Paper No.314:
247.

Material examined: Chhattisgarh; Koriya,
Gurughasidas NP, Khohir, 17.viii.2011,1(♂)
coll. A. Parida.

Distribution in Chhattisgarh: Bastar,
Bilaspur, Koriya and Raipur.

Family TRIGONIDIIDAE

Genus *Trigonidium* Rambur, 1838

Subgenus *Trigonidium* Rambur, 1839

**45. *Trigonidium (Trigonidium)*
cicindeloides Rambur, 1839**

1839. *Trigonidium cicindeloides* Rambur,
Faune Andal, 2 : 39.

2010. *Trigonidium (Trigonidium)*
cicindeloides, Shishodia et al. *Rec. zool.*
Surv. India, Occ. Paper No. 314 : 258.

Material examined: Chhattisgarh, Koriya,
Gurughasidas NP; Sonhut RH,
1.viii.2011,1(♂) coll. A. Parida.

Distribution in Chhattisgarh: Bastar and
Koriya.

Family GRYLLOTALPIDAE

Genus *Gryllotalpa* Latreille, 1802

46. *Gryllotalpa africana* Beauvois, 1805

1805. *Gryllotalpa africana* Beauvois, *Ins.*
Afr. Amer., : 229.

2010. *Gryllotalpa africana*, Shishodia et al.,
Rec. zool. Surv. India, Occ. Paper No. 314 :
260.

Material examined: Chhattisgarh, Koriya,
Gurughasidas NP, Sonhut RH, 21.iv.2013,
3(♂) coll. A. Parida.

Distribution in Chhattisgarh: Bastar,
Bilaspur, Koriya and Raipur.

Superfamily TETTIGONIOIDEA

Family TETTIGONIIDAE

Subfamily CONOCEPHALINAE

Genus *Conocephalus* Thunberg, 1815

Subgenus *Anisoptera* Latreille, 1829

**47. *Conocephalus (Anisoptera) maculatus*
(Le Guillou, 1841)**

1841. *Xiphidion maculatum* Le Guillou,
Revue Zool., 4 : 294.

2010. *Conocephalus (Anisoptera)*
maculatus, Shishodia et al., *Rec. zool. Surv.*
India, Occ. Paper No. 314 : 284.

Material examined: Chhattisgarh, Koriya,
Gurughasidas NP; Pipertala Forest,
17.xi.2011, 1(♂); Sonhut RH, 14.v.2012,
1(♀); 17.v.2012, 1(♂); 19.v.2012, 1(♀);
20.v.2012, 3(1♂,2♀); 22.v.2012, 1(♂);
22.iii.2013, 1(♀); 21.iv.2013, 4(2♂,2♀);
Kalsi Area, 19.iii.2012, 1(♀); Rawanpat,
23.x.2013, 1(♀); Thithima, 24.x.2013, 1(♂);
Berdev Nala, 17.xi.2013, 2(♂,♀); Rewala,
9.xii.2013, 2(♀) coll. A. Parida.

Distribution in Chhattisgarh: Bastar,
Bilaspur, Koriya and Raipur.

Subgenus *Chloroxiphidion* Hebard, 1922

**48. *Conocephalus (Chloroxiphidion) laetus*
(Redtenbacher, 1891) ***

1891. *Conocephalus laetus* Redtenbacher,
Verhandl. zool. bot. Ges., 41 : 514.

2010. *Conocephalus (Chloroxiphidion)*
laetus, Shishodia et al. *Rec. zool. Surv.*
India, Occ. Paper No. 314 : 285.

Material examined: Chhattisgarh, Koriya,
Gurughasidas NP, Sonhut RH,
23.viii.2011, 1(♀) coll. A. Parida.

Distribution in Chhattisgarh: Koriya.

Remark : This species is first time record
from Chhattisgarh State.

Genus *Euconocephalus* Karny, 1907

**49. *Euconocephalus pallidus*
(Redtenbacher, 1891)**

1891. *Conocephalus pallidus* Redtenbacher,
Verhandl. zool. bot. Ges., 41 : 414.

2010. *Euconocephalus pallidus*, Shishodia et
al. *Rec. zool. Surv. India*, Occ. Paper No.
314 : 287.

Material examined: Chhattisgarh, Koriya,
Gurughasidas NP; Ramghat, 9.xi.2011,
1(♀) coll. A. Raha & party.

Distribution in Chhattisgarh: Bilaspur,
Koriya and Raipur.

Subfamily Phaneropterinae

Genus *Himertula* Uvarov, 1940

50. *Himertula kinneari* (Uvarov, 1923)

1923. *Himerta kinneari* Uvarov, *J. Bombay nat. Hist. Soc.*, 29 (3) : 661.

2000. *Himertula kinneari*, Ingrisch & Shishodia, *Mitt. Münch. Ent. Ges.*, 90 : 20.

Material examined : Chhattisgarh, Koriya, Gurughasidas NP; Sonhut, 1.viii.2011, 1(♂) coll. A. Parida.

Distribution in Chhattisgarh: Bastar, Koriya and Raipur.

Genus *Khaoyaiana* Ingrisch, 1990

51. *Khaoyaiana nitens* Ingrisch, 1990

1990. *Khaoyaiana nitens* Ingrisch, *Senckenbergiana biologica*, 70 : 107.

2010. *Khaoyaiana nitens*, Shishodia *et al.*, *Rec. zool. Surv. India*, Occ. Paper No. 314 : 301.

Material examined : Chhattisgarh, Koriya, Gurughasidas NP; Sonhut, 18.viii.2011, 1(♀) coll. A. Parida.

Distribution in Chhattisgarh: Koriya and Raipur.

Genus *Letana* Walker, 1869

52. *Letana megastridula* Ingrisch, 1990

1990. *Letana megastridula* Ingrisch, *Ent. Scand.*, 21(3) : 258.

1990. *Letana megastridula* Ingrisch, *Entomologica Scandinavica*, 21(3) : 258.

2000. *Letana megastridula*, Shishodia, *Rec. zool. Surv. India*, 98 (1) : 77.

Material examined: Chhattisgarh, Koriya, Gurughasidas NP; Sonhut RH, 24.iv.2013, 1(♂) coll. A. Parida.

Distribution in Chhattisgarh: Bastar and Koriya.

53. *Letana infurcata* Ingrisch, 1990 *

1990. *Letana infurcata* Ingrisch, *Entomologica Scandinavica*, 21(3) : 249.

1999. *Letana infurcata*, Shishodia, *Rec. zool. Surv. India*, 97 (4) : 36.

Material examined: Chhattisgarh, Koriya, Gurughasidas NP; Sonhut RH, 24.iv.2013, 1(♀) coll. A. Parida.

Distribution in Chhattisgarh: Koriya.

Remark : This species is first time record from Chhattisgarh State.

54. *Letana intermedia* Ingrisch, 1990

1990. *Letana intermedia* Ingrisch, *Entomologica Scandinavica*, 21(3) : 260.

2005. *Letana intermedia*, Kulkarni & Shishodia, *Conservation Area Series*, 24 : *Fauna of Melghat Tiger Reserve*, Zool. Surv. India, : 321.

Material examined : Chhattisgarh, Koriya, Gurughasidas NP; Thitima Pahad, 24.x.2011, 5(♂) coll. A. Raha & party.

Distribution in Chhattisgarh: Bilaspur, Koriya and Raipur.

Genus *Phaneroptera* Serville, 1831

55. *Phaneroptera gracilis* Burmeister, 1838

1838. *Phaneroptera gracilis* Burmeister, *Handb. Ent.*, 2 : 690.

2003. *Phaneroptera gracilis*, Ingrisch & Muralirangan, *Bonn. Zoolog. Beitr.*, 51(4) : 310.

Material examined: Chhattisgarh, Koriya, Gurughasidas NP; Sonhut RH, 10.vii.2013, 1(♂); Berdev Nala, 17.xi.2013, 1(♀) coll. A. Parida.

Distribution in Chhattisgarh: Bilaspur and Koriya.

Subfamily PSEUDOPHYLLINAE

Genus *Sathrophyllia* Stål, 1874

56. *Sathrophyllia rugosa* (Linnaeus, 1758)

1758. *Gryllus (Tettigonia) rugosa* Linnaeus, *Systema Naturae per Regna Tria naturae*, (10th ed.) : 430.

1906. *Sathrophyllia rugosa*, Kirby, *Syn. Cata. Orth.*, : 306.

Material examined: Chhattisgarh, Koriya, Gurughasidas NP; Sonhut RH, 21.iv.2013, 1(♀) coll. A. Parida.

Distribution in Chhattisgarh: Bilaspur, Koriya and Raipur.

Summary : A total of 56 species and subspecies under 50 genera belonging 7 families of Orthopteran fauna have been reported from Gurughasidas National Park, Chhattisgarh, of which five species *i.e.*

Acorypha glaucopsis (Walker), *Aularches miliaris miliaris* (Linnaeus), *Turanogryllus histrio* (Saussure), *Conocephalus (Chloroxiphidion) laetus* (Redtenbacher), *Letana infurcata* Ingrisch, are recorded for the first time from Chhattisgarh state.

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