Research Article

Exploring Flat Faced Longhorn Beetles (Cerambycidae: Lamiinae) from the Reserve Forests of Dooars, West Bengal, India

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The present study deals with 29 lamiid species under 21 genera of Dooars, West Bengal, India. These include 4 newly recorded species, namely, *Macrochenus isabellinus* Aurivillius, *Aesopida malasiaca* Thomson, *Pterolophia (Hylobrotus) lateralis* Gahan and *Nupserha quadrioculata* (Thunberg) from India while 16 others (marked by •) from the state.

1. Introduction

Subfamily Lamiinae (Cerambycidae) include members of flat faced longhorn beetles that are both xylophagous and phytophagous [1]. The group appears to be well studied [2]. Globally more than 20,248 lamiid species under 3,052 genera are known [3]. Many of the details for each of the species are also provided [4, 5].

Despite being important from the stand point of forestry/pollination/bioindicator, this group of insects is yet to receive serious attention in India more so in North East India, one of the two hotspots of the country, an area certainly rich in floral diversity. It is therefore necessary to refer the early works done on the Indian lamiids [6–35]. However, none of the workers ever extensively dealt with these insects of “DOOARS.”

In the study area, Dooars represents the biogeographic provinces of Central Himalayas (2C) and lower gangetic plains (7B) situated between latitudes 26°16" and 27°00" north and longitudes 88°04" and 89°58" east. It includes 4 reserve forests, namely, Buxa Tiger Reserve (BTR, 760.87 sq. km.), Jaldapara Wildlife Sanctuary (JWLS, 216.51 sq. km.), Gorumara National Park (GNP, 79.99 sq. km.), and Chapramari Wildlife Sanctuary (CWLS, 9.6 sq. km.), lying in the foothills of Himalaya.

We (saving the second author) for nearly two decades are involved in the exploration of the long horn beetles of the area. Present communication is one such outcome on the lamiids dealing with 29 species under 21 genera. Four of the 29 species, namely, *Macrochenus isabellinus* Aurivillius, *Aesopida malasiaca* Thomson, *Pterolophia (Hylobrotus) lateralis* Gahan, and *Nupserha quadrioculata* (Thunberg), are reported as new from the country while 16 others (marked by •) from the state.

2. Material and Methods

Initiated in 1993, extremely intense survey is still on in the aforesaid forests for the cerambycids (flat-faced longhorn beetles). Insect samples are collected by hand picking, sweep net, and bush/foilage/herb beating. Many of the samples are collected by operating UV light trap during 18–22 hrs of the day. Further processing of the insect material is done following the recommended practices [36] and studied under Stereozoom Binocular Microscopes, models Zeiss SV11 and Olympus SZX7, each with necessary photographic attachment. Reported species are in the deposition of Entomology Laboratory, Department of Zoology, University of Calcutta.

3. Results

The 29 recorded species of 21 genera under 11 tribes are presented hereunder.

3.1. Tribe: Acanthocinini

- *Ostedes (Trichostedes) assamana* Breuning, 1961 (Figure 1(a)).

Ostedes (Trichostedes) assamana Breuning, 1961, Zs. d. Arbeit. Ost. Ent. 12(3): 135.

Material Examined. 1 ex., Kumargram, BTR, 26.v.2004, coll. S. Sarkar; 1 ex., Bendaki, JWLS, 820. xi. 2002, coll. S. Bhattacharya.

Distribution. India: Assam, West Bengal; Laos [3, 4, 37].

3.2. Tribe: Agapanthini

- *Eucomatocera vittata* White, 1846 (Figure 1(b)).

Eucomatocera vittata White, 1846, Ann. Mag. Nat. Hist., 18: 49.

Material Examined. 1 ex., Tashigaon, BTR, 26.v.2003, coll. S. Sarkar; 1 ex., Rajabhatkhawa, BTR, 17.ix.2010, coll. S. Sarkar; 1 ex., Siltorsa, JWLS, 17.iii.2002, coll. S. Bhattacharya; 1 ex., Kunjanagar, JWLS, 27.iv.2002, coll. S. Bhattacharya; 1 ex., 50 ft, JWLS, 1.v.2002, coll. S. Bhattacharya; 1 ex., Moiradanga, JWLS, 3.vi.2002, coll. S. Bhattacharya; 2 ex., NWC, JWLS, 7.vi.2002, coll. S. Bhattacharya; 1 ex., Mendabari, JWLS, 9.vi.2002, coll. S. Bhattacharya; 1 ex., C.C.Line, JWLS, 9.vi.2002, coll. S. Bhattacharya; 3 ex., C.C.Line, JWLS, 14.x.2002, coll. S. Bhattacharya; 1 ex., Siltorsa, JWLS, 19.x.2002, coll. S. Bhattacharya; 1 ex., Baradabri, JWLS, 30.iv.2003, coll. S. Bhattacharya; 1 ex., Malangi, JWLS, 2.vi.2003, coll. S. Bhattacharya; 1 ex., Lankapara, JWLS, 5.vi.2003, coll. S. Bhattacharya; 1 ex., T.E.C., JWLS, 9.vi.2003, coll. S. Bhattacharya; 1 ex., Mantharam, JWLS, 18.x.2003, coll. S. Bhattacharya; 1 ex., Sisamara, JWLS, 20.vi.2003, coll. S. Bhattacharya; 1 ex., Gorumara, GNP, 3.xi.2003, coll. M. K. Biswas; 1 ex., Bichabhanga, GNP, 1.iv.2003, coll. M. K. Biswas; 1 ex., Chapramari, CWLS, 4.xi.2003, coll. M. K. Biswas.

Distribution. India: West Bengal; Laos, Myanmar, Sri Lanka, Taiwan, Thailand, and Vietnam [4, 37].

- *Tetraglenes hirticornis* (Fabricius, 1798) (Figure 1(c)).

Saperda hirticornis Fabricius, 1798, Ent. Syst. Suppl., 148.

Material Examined. 1 ex., Sankos, BTR, 8.v.1995, coll. D. Raychaudhuri; 1 ex., Bhutanghat, BTR, 25.v.1995, coll. S. Saha; 1 ex., Jayanti, BTR, 24.v.1996, coll. D. Raychaudhuri; 1 ex., Daidaighat, JWLS, 8.iv.2002, coll. S. Bhattacharya; 2 ex., NWC, JWLS, 7.vi.2002, coll. S. Bhattacharya; 1 ex., Mendabari, JWLS, 9.vi.2002, coll. S. Bhattacharya; 1 ex., Daidaighat, JWLS, 2.vi.2003, coll. S. Bhattacharya; 1 ex., Baradabri, JWLS, 6.vi.2003, coll. S. Bhattacharya.

Distribution. India: West Bengal; China, Indonesia, Laos, Myanmar, Nepal, and Vietnam [4, 37–39].

(a)

(b)

(c)

(d)

(e)

(f)

FIGURE 1: (a) *Ostedes (Trichostedes) assamana* Breuning, (b) *Eucomatocera vittata* White, (c) *Tetraglenes hirticornis* (Fabricius), (d) *Astathes (Tetraophthalmus) gibbicollis* Thomson, (e) *Astathes (Tetraophthalmus) violaceipennis* (Thomson), and (f) *Batocera davidis* Fairemaire.

3.3. Tribe: Astathini

- *Astathes (Tetraophthalmus) gibbicollis* Thomson, 1865 (Figure 1(d)).

Astathes gibbicollis Thomson, 1865, Syst. Cer., 559.

Material Examined. 1 ex., Poro, BTR, 5.iv.2002, coll. D. Raychaudhuri; 1 ex., Rajabhatkhawa, BTR, 24.v.2009 (LT) coll. S. Sarkar.

FIGURE 2: (a) *Diastocera wallichi* (Hope), (b) *Olenecamptus bilobus* (Fabricius), (c) *Olenecamptus dominus* Thomson, (d) *Acalolepta griseipennis* (Thomson), (e) *Aristobia approximatus* (Thomson), and (f) *Blepephaeus succinator* (Chevrolat).

Distribution. India: North India, West Bengal; Laos, Malaysia, Myanmar, and Vietnam [4, 37].

- *Astathes (Tetraophthalmus) violaceipennis* (Thomson, 1857) (Figure 1(e)).

Tetraophthalmus violaceipennis Thomson, 1857, *Archiv. Ent.*, 1: 53.

Material Examined. 1 ex., Newland, BTR, 26.v.1995, coll. D. Raychaudhuri; 1 ex., Rajabhatkhawa, BTR, 24.v.2009, coll. S. Sarkar; 2 ex., Dima, BTR, 10.iv.2010, coll. S. Sarkar; 1 ex., Dima, BTR, 10.iv.2010, coll. S. Sarkar; 2 ex., Mendabari,

JWLS, 28.iv.2003, coll. S. Bhattacharya; 1 ex., Khunia, GNP, 5.vi.2006, coll. M. K. Biswas.

Distribution. India: Assam, Sikkim, West Bengal; China, Laos, Myanmar, Nepal, Thailand, and Vietnam [4, 38, 40, 41].

3.4. Tribe: Batocerini

Batocera davidis Fairemaire, 1878 (Figure 1(f)).

Batocera davidis Fairemaire, 1878, *Ann. Soc. Ent. Fr.*, 8(5): 131.

Materials Examined. 1 ex., Panbari, BTR, 20.v.1995, coll. S. Saha; 1 ex., Jayanti, BTR, 21.iv.2003, coll. S. Sarkar; 1 ex., Buxaduar, BTR, 3.ix.2009(LT), coll. S. Sarkar; 2 ex., Rajabhatkhawa, BTR, 10.ix.2009, coll. S. Sarkar; 1 ex., Gorumara, GNP, 3.11.2003, coll. M. K. Biswas.

Distribution. India: West Bengal; China, Hawaii, Laos, Taiwan, and Vietnam [4, 42].

3.5. Tribe: Ceroplesini

- *Diastocera wallichi* (Hope, 1831) (Figure 2(a)).

Lamia wallichi Hope, 1831: *Gray's Zool. Misc.* 1: 27.

Material Examined. 1 ex., Phaskhawa, BTR, 2.v.1996, coll. S. Saha; 1 ex., Panbari, BTR, 4.iv.2003, coll. S. Bhattacharya.

Distribution. India: Arunachal Pradesh, Assam, Bihar, Meghalaya, Sikkim, Uttar Pradesh, West Bengal; China, Indonesia, Iran, Laos, Malaysia, Myanmar, Nepal, Thailand, and Vietnam [4, 29, 43].

3.6. Tribe: Dorcaschematini

- *Olenecamptus bilobus* (Fabricius, 1801) (Figure 2(b)).

Saperda biloba Fabricius 1801, *Bibl. Acad. Nov.*, 2: 324.

Material Examined. 1 ex., Rajabhatkhawa, BTR, 19.v.1995, coll. S. Saha; 1 ex., Nimati, BTR, 27.v.1997, coll. D. Raychaudhuri; 1 ex., Rajabhatkhawa, BTR, 29.iii.2002(LT), coll. S. Sarkar; 1 ex., Rajabhatkhawa, BTR, 11.x.2009, coll. S. Sarkar; 1 ex., Holapara, JWLS, 29.iv.2003, coll. S. Bhattacharya.

Distribution. India: Andaman and Nicobar Island, Maharashtra, Orissa, Tripura, Uttarakhand, West Bengal; Australia, Bhutan, Bismarck A., Celebes Island, China, Comores, Indonesia, Japan, Laos, Madagascar, Malaysia, Malacca, Mauritius, Micronesia, Myanmar, Nepal, New Guinea, Pakistan, Philippines, Reunion Island, Sunda Island, Seychelles Island, Sri Lanka, Taiwan, Thailand, Timor, Vanuatu Island, and Vietnam [4, 12, 22, 23, 26, 34, 37].

- *Olenecamptus dominus* Thomson, 1860 (Figure 2(c)).

Olenecamptus dominus Thomson, 1860, *Essai class. Cer.* 362.

Material Examined. 1 ex., Damanpur, BTR, 12.iv.2009, coll. S. Sarkar; 2 ex., Hollong, JWLS, 29.iv.2002, coll. S. Bhattacharya.

Distribution. India: Assam, West Bengal; Cambodia, China, Laos, Thailand, Vietnam [3, 4, 37].

3.7. Tribe: Lamiini

- *Acalolepta griseipennis* (Thomson, 1857) (Figure 2(d)).

Monochamus griseipennis Thomson, 1857, *Arch. Ent.* 1: 296.

Material Examined. 2 ex., Newland, BTR, 17.v.1997, coll. S. Saha; 1 ex., Nimati, BTR, 22.v.1997, coll. B. Kundu; 1 ex., Kunjanagar, JWLS, 27.iv.2002, coll. S. Bhattacharya; 1 ex., Bichabhang, GNP, 5.vi.2006, coll. S. Sen.

Distribution. India: Sikkim, West Bengal; Bhutan, China, Laos, Malaysia, Myanmar, and Nepal [3, 4, 37, 39].

- *Aristobia approximator* (Thomson, 1865) (Figure 2(e)).

Celosterna approximator Thomson, 1865, *Mem. Soc. R. Sci. Liege*, 19: 552.

Material Examined. 1 ex., Gadadhar, BTR, 20.x.2003, coll. S. Sarkar; 1 ex., Cheko, BTR, 11.ix.2009, coll. S. Sarkar.

Distribution. India: Assam, Manipur, West Bengal; Cambodia, China, Laos, Malaysia, Myanmar, Thailand, and Vietnam [3, 4, 12, 37, 39, 44].

- *Blepephaeus succinator* (Chevrolat, 1852) (Figure 2(f)).

Monochamus succinator Chevrolat, 1852, *Rev. Mag. Zool.* 2, 4: 417.

Material Examined. 1 ex. Panbari, BTR, 25.v.2009, coll. S. Sarkar; 2 ex., Mendabari, JWLS, 3.vii.2003, coll. S. Sarkar; 1 ex., Gorumara, GNP, 3.vi.2006, coll. S. Sen.

Distribution. India: Assam, Meghalaya, Sikkim, West Bengal; China, Indonesia, Laos, Malacca, Malaysia, Nepal, Taiwan, Thailand, and Vietnam [3, 4, 29, 37].

- *Macrochenus isabellinus* Aurivillius, 1920 (Figure 3(a)).

Macrochenus isabellinus Aurivillius, 1920, *Ark. Zool.*, 13 (9): 372.

Material Examined. 1 ex., Phaskhawa, BTR, 25.v.1997, coll. S. Saha.

Distribution. India: West Bengal; China, Laos, Myanmar, Nepal, Thailand, and Vietnam [4, 38, 39].

- *Paraleprodera insidiosa* (Pascoe, 1888) (Figure 3(b)).

Leprodera insidiosa Pascoe, 1888, *Ann. Mag. Nat. Hist.* ser. 6, 2: 391.

Material Examined. 1 ex., Panbari, BTR, 24.v.1995, coll. B. Kundu; 1 ex., Raimatang, BTR, 30.v.1996, coll. S. Saha; 1 ex.,

FIGURE 3: (a) *Macrochenus isabellinus* Aurivillius, (b) *Paraleprodera insidiosa* (Pascoe), (c) *Pharsalia (Cycos) subgemma* (Thomson), (d) *Pseudonemophas versteegi* (Ritsema), (e) *Aesopida malasiaca* Thomson, and (f) *Coptops aedificator* (Fabricius).

Sankos, BTR, 10.vi.2003, coll. S. Sarkar; 1 ex., S. Bholka, BTR, 12.iv.2009, coll. S. Sarkar; 2 ex., Jayanti, BTR, 14.iv.2009, coll. S. Sarkar; 1 ex., Rajabhatkhawa, BTR, 24. v.2009, coll. S. Sarkar; 1 ex., Panbari, BTR, 25.v.2009, coll. S. Sarkar; 1 ex., Rajabhatkhawa, BTR, 12.iv.2010, coll. S. Sarkar; 1 ex., Malangi, JWLS, 23.iii.2002, coll. S. Bhattacharya; 1 ex., Chapramari, CWLS, 6.vi.2006, coll. S. Sen.

Distribution. India: North India, West Bengal; Cambodia, China, Laos, Malaysia, Myanmar, Taiwan, Thailand, and Vietnam [3–5, 39].

- *Pharsalia (Cycos) subgemma* (Thomson, 1857) (Figure 3(c)).

Monochamus subgemma Thomson, 1857, *Arch. Ent.* 1: 294.

Material Examined. 1 ex., Kumargram, BTR, 25.vi.2004, coll. S. Sarkar.

Distribution. India: Andaman and Nicobar Islands, West Bengal; Bangladesh, Cambodia, China, Indonesia, Laos, Malaysia, Myanmar, Nepal, Thailand, and Vietnam [3, 4, 22, 39].

- *Pseudonemophas versteegi* (Ritsema, 1881) (Figure 3(d)).

Monohammus versteegi Ritsema, 1881. Not. Leyd. Mus., 3(3): 155.

Material Examined. 1 ex., Tashigaon, BTR, 26.v.1996, coll. B. Kundu; 2 ex., Newland, BTR, 17.v.1997, coll. D. Raychaudhuri; 1 ex., Jayanti, BTR, 21.iv.2003, coll. S. Saha; 1 ex., Hatipota, BTR, 15.iv.2009, coll. S. Sarkar; 1 ex., Raimatang, BTR, 27.v.2009, coll. S. Sarkar; 1 ex., Dima BTR, 10.iv.2010, coll. S. Sarkar; 1 ex., Gorumara, GNP, 5.vi.2004, coll. M. K. Biswas; 2 ex., Gorumara, GNP, 5.vi.2004, coll. M. K. Biswas.

Distribution. India: Sikkim, West Bengal; China, Indonesia, Laos, Malaysia, Myanmar, Nepal, Thailand, and Vietnam [3, 4, 37, 39].

3.8. Tribe: Mesosini

Aesopida malasiaca Thomson, 1864 (Figure 3(e)).

Aesopida malasiaca Thomson, 1864, *Mem. Soc. R. Sci. Liege* 19: 62.

Material Examined. 1 ex., Chapramari, CWLS, 4.iv.2003, coll. M. K. Biswas.

Distribution. India: West Bengal; China, Indonesia, Laos, Malaysia, and Vietnam [3, 4, 39].

- *Coptops aedificator* (Fabricius, 1792) (Figure 3(f)).

Lamia aedificator Fabricius, 1792, *Hafniae*, Proft, 1, 2: 275.

Material Examined. 1 ex., Kumargram, BTR, 14.iv.2003, coll. S. Sarkar.

Distribution. India: Andaman Island, West Bengal; Cameroon, Cape Verde, Central African Republic, China, Comoros, Democratic Republic of Congo, Djibouti, Ethiopia, *Fernando Po*, Gabon, Hawaii, Ivory coast, Mauritius, Reunion Island, Kenya, Liberia, Madagascar, Malawi, Mauritius, Namibia, Nigeria, Philippines, Principe Island, Saudi Arabia, Senegal, Seychelles, Somalia, South Africa, Sri Lanka, Taiwan, Tanzania, Uganda, Yemen, Zambia [3–5, 39, 42].

Coptops leucostictica White, 1858 (Figure 4(a)).

Coptops leucostictica White, 1858, *Ann. Mag. Nat. Hist.*, 3, 2: 272.

Material Examined. 1 ex., Rajabhatkhawa, BTR, 7.iii.2003, coll. S. Sarkar; 1 ex., Sankos, BTR, 26.v.2004, coll. S. Sarkar; 1 ex., Rajabhatkhawa, BTR, 24.v.2009, coll. S. Sarkar; 1 ex.,

FIGURE 4: (a) *Coptops leucostictica* White, (b) *Pterolophia* (*Hylobrotus*) *lateralis* Gahan, (c) *Glenea* (*Stirolene*) *cantor* (Fabricius), (d) *Glenea* (*s. str.*) *indiana* (Thomson), (e) *Glenea* (*s. str.*) *pulchra* Aurivillius, and (f) *Glenea* (*s. str.*) *t-notata* Gahan.

Rajabhatkhawa, BTR, 13.x.2009, coll. S. Sarkar; 1 ex., Madarihat, JWLS, 7.6.2002, coll. S. Bhattacharya.

Distribution. India: Assam, Sikkim, West Bengal; Cambodia, China, Indonesia, Laos, Malaysia, Myanmar, Thailand, and Vietnam [4, 5, 29].

3.9. Tribe: Pteropliini

Pterolophia (*Hylobrotus*) *lateralis* Gahan, 1894 (Figure 4(b)).

Pterolophia lateralis Gahan, 1894, *Ann. Mus. Civ. Genova.*, 34: 65.

Material Examined. 1 ex., Madarihath, JWLS, 7.6.2002, coll. S. Bhattacharya.

Distribution. India: West Bengal; China, Indonesia, Japan, Laos, Myanmar, Taiwan [3–5, 37, 39].

3.10. Tribe: Saperdini

- *Glenea (Stirolene) cantor* (Fabricius, 1787) (Figure 4(c)).

Lamia cantor Fabricius, 1787, *Mant. Ins.* 1: 142.

Material Examined. 1 ex., Jayanti, BTR, 24.v.1996, coll. S. Saha; 1 ex., Kumargram, BTR, 18.v.1997, coll. D. Raychaudhuri; 1 ex., Garam, BTR, 20.vi.2003, coll. S. Sarkar; 2 ex., Bendaki, JWLS, 8.xi.2001, coll. S. Bhattacharya; 2 ex., Daidaghat, Jaldapara, 5.3.2003, coll. S. Bhattacharya; 1 ex., Jaldapara, JWLS, 7.xi.2004, coll. S. Bhattacharya; 1 ex., Gorumara, GNP, 2.xi.2003, coll. M. K. Biswas.

Distribution. India: West Bengal; China, Laos, Philippines, and Vietnam [3, 4].

Glenea (s. str.) indiana (Thomson, 1857) (Figure 4(d)).

Stibara indiana Thomson, 1857, *Archive Ent.*, 1: 141.

Material Examined. 1 ex., Rajabhatkhawa, BTR, 19.v.1995, coll. B. Kundu; 1 ex., Panbari, BTR, 20.v.1995, coll. D. Raychaudhuri; 1 ex., Newland, BTR, 17.v.1997, coll. S. Saha; 1 ex., Gadadhar, BTR, 5.ix.2009, coll. S. Sarkar.

Distribution. India: Meghalaya, Sikkim, Tripura, West Bengal; Bangladesh, Bhutan, Indonesia, Malaysia, Myanmar, Nepal, Laos, Thailand, and Vietnam [3, 4, 12, 26, 29, 37, 40, 45].

Glenea (s. str.) pulchra Aurivillius, 1926 (Figure 4(e)).

Glenea pulchra Aurivillius, 1926, *Philip. J. Sci.* 30: 111.

Material Examined. 1 ex., S. Bholka, BTR, 20.iii.1997, coll. S. Saha; 1 ex., Kunjanagar, JWLS, 3.vi.2003, coll. M. K. Biswas; 1 ex., Siltorsa, JWLS, 19.x.2003, coll. S. Bhattacharya; 1 ex., Budhuram, GNP, 4.vi.2006, coll. M. K. Biswas.

Distribution. India: Assam, Sikkim, West Bengal; China, Indonesia, Laos, Malacca, Malaysia, Myanmar, Philippines, Taiwan, Thailand, and Vietnam [3, 4, 12, 37, 39].

- *Glenea (s. str.) t-notata* Gahan, 1889 (Figure 4(f)).

Glenea (s. str.) t-notata Gahan, 1889, *Trans. Ent. Soc.*, 223.

Material Examined. 1 ex., Newland, BTR, 17.vii.1997, coll. D. Raychaudhuri.

Distribution. India: West Bengal; Bangladesh, China, Laos, Nepal [3–5, 37, 39].

Nupserha fricator (Dalman, 1817) (Figure 5(a)).

Saperda fricator Dalman, 1817, *Syn. Ins.* 1 (3): 183.

FIGURE 5: (a) *Nupserha fricator* (Dalman), (b) *Nupserha quadrioculata* (Thunberg) (c) *Stibara (s. str.) tetraspilota* Hope, (d) *Stibara (s. str.) tricolor* (Fabricius), and (e) *Xylorhiza adusta* (Wiedmann).

Material Examined. 1 ex., Newland, BTR, 19.v.1997, coll. D. Raychaudhuri; 1 ex., Bichabhanga, GNP, 1.iv.2003, coll. M. K. Biswas.

Distribution. India: Arunachal Pradesh, Sikkim, West Bengal; Celebes Island, China, Indonesia, Malaysia, Myanmar, Nepal, Philippines, Taiwan, Thailand, and Vietnam [3, 4, 29, 46].

Nupserha quadrioculata (Thunberg, 1787) (Figure 5(b)).

Saperda quadrioculata Thunberg, 1787, *Mus. Nat. Acad. Upsala* 4: 57.

Material Examined. 1 ex., Nimati, BTR, 3.iv.2002, coll. S. Sarkar; 1 ex., S. Bholka, BTR, 12.iv.2009, coll. S. Sarkar.

Distribution. India: West Bengal; China, Indonesia, Laos, Myanmar, Nepal, Thailand, and Vietnam [3, 4, 37, 39].

Stibara (s. str.) tetraspilota Hope, 1840 (Figure 5(c)).

Stibara tetraspilota Hope, 1840, *Proc. Zool. Soc. Lond.*, 1: 79.

Material Examined. 1 ex, Phaskhawa, BTR, 9.v.1994, coll. B. Kundu; 1 ex, Panbari, BTR, 20.v.1995, coll. S. Saha; 1 ex, Phaskhawa, BTR, 25.v.1996, coll. S. Saha; 1 ex, S. Bholka, BTR, 19.vi.1996, coll. S. Saha; 1 ex, S. Bholka, BTR, 19.v.1997, coll. D. Raychaudhuri; 1 ex, Nimati, BTR, 21. v.1997, coll. S. Saha; 1 ex, Nimati, BTR, 3.iv.2002, coll. S. Sarkar; 1 ex, Kumargram, BTR, 11.iv.2009, coll. S. Sarkar; 1 ex, Jaldapara, JWLS, 29.iv.2002, coll. S. Bhattacharya; 1 ex, Hasimara, JWLS, 10.vi.2002, coll. S. Bhattacharya; 1 ex, Baradabri, JWLS, 6.vi.2002 coll. S. Bhattacharya; 1 ex, Chapramari, CWLS, 6.vi.2006, coll. S. Sarkar.

Distribution. India: Assam, Himachal Pradesh, Sikkim, Meghalaya, Orissa, West Bengal; Laos, Myanmar, Thailand [4, 23, 25, 29, 33, 37].

- *Stibara (s. str.) tricolor* (Fabricius, 1792) (Figure 5(d)).

Saperda tricolor Fabricius, 1792, *Hafniae*, Proft., 1 (2): 309.

Material Examined. 2 ex., Newland, BTR, 26.v.2004, coll. S. Sarkar.

Distribution. India: Assam, West Bengal; China, Laos, Malaysia, Myanmar, Thailand, and Vietnam [3–5, 37].

3.11. Tribe: *Xylorhizini*

Xylorhiza adusta (Wiedmann, 1819) (Figure 5(e)).

Lamia adusta Wiedmann, 1819, *Zool. Mag. Kiel.*, 1 (3): 182.

Material Examined. 1 ex., TEC, JWLS, 9.vi.2003, coll. S. Bhattacharya.

Distribution. India: Orissa, Sikkim, Tamil Nadu, West Bengal; Cambodia, China, Indonesia, Laos, Malacca, Malaysia, Myanmar, Nepal, Pakistan, Philippines, Sri Lanka, Taiwan, Thailand, and Vietnam [3–5, 23, 29, 37, 39].

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