

## ON A SMALL COLLECTION OF DIPTERA FROM CHOTA NAGPUR, BIHAR

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### INTRODUCTION

This report deals with the material of Diptera collected from Chota Nagpur, Bihar, by Dr. A. P. Kapur during 1954-1955 and Dr. Raj Tilak during 1966-1969 of Zoological Survey of India, Calcutta. Majority of the species are recorded for the first time from this area. These are preliminary surveys and a number of intensive faunistic surveys are required to know in detail the Diptera fauna of Chota Nagpur.

The families dealt with are Tipulidae, Chironomidae, Bombyliidae, Pipunculidae, Syrphidae, Tephritidae, Sepsidae, Sciomyzidae, Chloropidae, Calliphoridae, Sarcophagidae, Muscidae and Hippoboscidae.

### SYSTEMATIC ACCOUNT

#### Family TIPULIDAE

##### 1. *Conosia irrorata* (Wiedemann)

1828. *Limnobia irrorata* Wiedemann, *Auss. Zweift.*, 1 : 574.

1912. *Conosia irrorata* (Wiedemann): Brunetti, *Fauna Brit. India, Diptera, Nematocera*: 497-499, text-fig. 43.

**Material.** —1 ex., Sanka River Bank, Ranchi Dist., 14. ix. 1966, and 1 ex., Lohardaga, Ranchi Dist., 17. xii. 1967; coll. R. Tilak.

**Remarks.** —The specimen bearing Reg. No. 4483/H6 without spots on sides of the median line of thorax. In the other, apical tarsus of anterior leg brown dorsally.

Recorded from whole of Orient; also from Japan and Australia.

#### Family CHIRONOMIDAE

##### 2. *Calyptopogon albitarsis* Kieffer

1910. *Calyptopogon albitarsis* Kieffer, *Mem. Indian Mus.*, 2 : 209-210, pl. 8, figs. 2, 6.

**Material.** —8 exs., at light, Simdega, Ranchi Dist., 15. ix. 1966; coll. R. Tilak.

*Remarks.*—Reported from Calcutta, W. Bengal; also from East Indies.

### 3. *Palpomyia disticta* Kieffer

1911. *Palpomyia disticta* Kieffer, *Rec. Indian Mus.*, 6 : 115-116, pl. 6, fig. 1.

*Material.*—2 exs., at light, Simdega, Ranchi Dist., 15 ix. 1966; coll. R. Tilak.

*Remarks.*—Recorded from Calcutta, W. Bengal; Madhpur and Bhogaon, Bihar; Allahabad, Uttar Pradesh.

### Family BOMBYLIIDAE

### 4. *Anthrax albofulva* Walker

1852. *Anthrax albofulva* Walker, *Ins. Saund. Dipt.*, pt. 3 : 182.

1920. *Anthrax albofulva* Walker: Brunetti, *Fauna Brit. India, Diptera*, 1 : 251-252.

*Material.*—1 ex., Basia, Ranchi Dist., 25. xii. 1967; coll. R. Tilak.

*Remarks.*—National Zoological Collection, Calcutta, contains specimens from Guindy and Waltair, S. India; Hathikund, Gharwal District, Uttar Pradesh.

### Family PIPUNCULIDAE

### 5. *Pipunculus limpidipennis* Brunetti

1912. *Pipunculus limpidipennis* Brunetti, *Rec. Indian Mus.*, 7 : 491.

1923. *Pipunculus limpidipennis* Brunetti: Brunetti, *Fauna Brit. India, Diptera*, 3 : 20-21.

*Material.*—2 exs., Kuru, Ranchi Dist., 12. xii. 1969; coll. R. Tilak.

*Remarks.*—Recorded from Calcutta, W. Bengal; Puri, Orissa; Igatpur, Western Ghats; Pusa, Bihar; also from Nepal.

### Family SYRPHIDAE

### 6. *Paragus rufiventris* Brunetti

1913. *Paragus rufiventris* Brunetti: *Rec. Indian Mus.*, 8 : 157-158.

1923. *Paragus rufiventris* Brunetti: Brunetti, *Fauna Brit. India, Diptera*, 3 : 34-35.

*Material.*—1 ex., Tholkabad, Chaibasa Dist., 2. ii. 1955; coll. A. P. Kapur.

*Remarks.*—Widely distributed in India.

### 7. *Melanostoma univittatum* (Wiedemann)

1824. *Syrphus univittatum* Wiedemann, *Analec. Entom.*, p. 36.

1923. *Melanostoma univittatum* (Wiedemann): Brunetti, *Fauna Brit. India, Diptera*, 3 : 50-51.

*Material.*—1 ex., Manoharpur, Chaibasa Dist., 29. xii. 1967; coll. R. Tilak.

**Remarks.**—Recorded from Darjeeling, W. Bengal; Chapra and Pusa, Bihar, Sadiya, Dibrugarh and Shillong, Assam; NEFA; Coorg, Nedumangad and Coromandel, S. India; also from Sri Lanka; Lower Burma; Sumatra; Queensland.

### 8. *Syrphus balteatus* (De Geer)

- 1776. *Musca balteata* De Geer, *Mem. Insectes*, 6 : 116.
- 1923. *Syrphus balteatus* (De Geer): Brunetti, *Fauna Brit. India, Diptera*, 3 : 82-84, pl. 1, figs. 19-20.

**Material.**—1 ex., Mandar, Ranchi Dist., 6. xii. 1967, and 2 exs., Mandar, Ranchi Dist., 7. xii. 1967; coll. R. Tilak.

**Remarks.**—Very common throughout the East in hills and plains; also known to occur in Europe; Maderia; Canaries; N. Africa; Asia to Japan.

### 9. *Syrphus confrater* Wiedemann

- 1830. *Syrphus confrater* Wiedemann, *Auss. Zweifl.*, 2 : 120.
- 1923. *Syrphus confrater* Wiedemann: Brunetti, *Fauna Brit. India, Diptera*, 3 : 92-94, pl. 2, fig. 17.

**Material.**—2 exs., Lohardaga, Ranchi Dist., 19. xii. 1969; coll. R. Tilak.

**Remarks.**—Previously reported from Pusa, Chapra and Patna, Bihar; Simla, Himachal Pradesh; Khasi Hills, Assam; also recorded from Sumatra and China.

### 10. *Ischiodon scutellaris* (Fabricius)

- 1805. *Scaeva scutellaris* Fabricius, *Syst. Antl.*, p. 252.
- 1923. *Ischiodon scutellaris* (Fabricius): Brunetti, *Fauna Brit. India, Diptera*, 3 : 97-99, text-fig. 17.

**Material.**—2 exs., Mandar, Ranchi Dist., 7. xii. 1967, 3 exs., Mandar, Ranchi Dist., 8. xii. 1967, and 1 ex., Kuru, Ranchi Dist., 12. xii. 1969; coll. R. Tilak.

**Remarks.**—Common in India especially in W Bengal and Assam; widely distributed in the East; common in North Africa.

### 11. *Sphaerophoria indiana* Bigot

- 1884. *Sphaerophoria indiana* Bigot, *Ann. Soc. Ent. France*, (6) 4 : 99.
- 1923. *Sphaerophoria indiana* Bigot: Brunetti, *Fauna Brit. India, Diptera*, 3 : 102-103, pl. 3, figs. 1-6.
- 1967. *Sphaerophoria indiana* Bigot: Joseph, *Oriental Insects*, 1 (3 & 4) : 248, figs. 6, 8-13.

**Material.**—1 ex., Mandar, Ranchi Dist., 6. xii. 1967, and 1 ex., Lohardaga, Ranchi Dist., 19. xii. 1969; coll. R. Tilak.

**Remarks.**—Distributed throughout India, common in the Western Himalaya but less so in eastern ranges.

12. *Eristalis arvorum* (Fabricius)

1787. *Syrphus arvorum* Fabricius, *Mant. Ins.* 2 : 335.  
 1923. *Eristalis arvorum* (Fabricius): Brunetti, *Fauna Brit. India, Diptera*, 3 : 181-183, pl. 4, figs. 6, 7.

*Material.* —2 exs., Basia, Ranchi Dist., 25. xii. 1967; coll. *R. Tilak*.

*Remarks.* —Common all over India, occurring in almost all parts of the Orient.

13. *Megaspis errans* (Fabricius)

1787. *Syrphus errans* Fabricius, *Mant. Ins.*, 2 : 337.  
 1923. *Megaspis errans* (Fabricius): Brunetti, *Fauna Brit. India, Diptera*, 3 : 199-200.

*Material.* —1 ex., Basia, Ranchi Dist., 25. xii. 1967, 7 exs., Basia, Ranchi Dist., 26. xii. 1967, and 5 exs., Basia, Ranchi Dist., 27. xii. 1967; coll. *R. Tilak*.

*Remarks.* —In one example (Reg. No. 4574/H6), thoracic dorsum completely black with brown pubescence except for some whitish hairs on either side of the suture.

Very Common throughout the East.

14. *Megaspis argyrocephalus* (Macquart)

1842. *Eristalis argyrocephalus* Macquart, *Dipt. Exot.*, 2 : 45, pl. 10, fig. 5.  
 1923. *Megaspis argyrocephalus* (Macquart): Brunetti, *Fauna Brit. India, Diptera*, 3 : 201-203, pl. 4, fig. 20.

*Material.* —2 exs., Mandar, Ranchi Dist., 8. xii. 1967, 2 exs., Basia, Ranchi Dist., 26. xii. 1967, and 1 ex., Basia, Ranchi Dist., 27. xii. 1967; coll. *R. Tilak*.

*Remarks.* —A widely distributed species of the Orient.

Family TEPHRITIDAE

15. *Dacus (Zeugodacus) tau* (Walker)

1849. *Dasyneura tau* Walker, *List. Dipt. Brit. Mus.*, 4 : 1674.  
 1970. *Dacus (Zeugodacus) tau* (Walker): Kapoor, *Oriental Insects*, 4 (2) : 219-220.

*Material.* —15 exs., Timra, Chaibasa Dist., 12. ii. 1955; coll. *A. P. Kapur*.

*Remarks.* —Widely distributed in India; also reported from Nepal, Sri Lanka, Burma, Malaya, Formosa, Philippines and Java.

16. *Platensina acrostacta* (Wiedemann)

1824. *Trypetta acrostacta* Wiedemann, *Anal. Entom.*, 54 : 119.  
 1970. *Platensina acrostacta* (Wiedemann): Kapoor, *Oriental Insects*, 4 (2) : 244.

**Material.**—1 ex., Kuru, Ranchi Dist., 12. xii. 1969; coll. R. Tilak.

**Remarks.**—Reported from Khasi Hills, Assam; Puri, Orissa; Calcutta, W. Bengal; also from Sylhet, Bangladesh; Burma.

### 17. *Styliia sororcula* (Wiedemann)

1830. *Trypetia sororcula* Wiedemann, *Auss. Zweifl.*, 2 : 509.

1970. *Styliia sororcula* (Wiedemann): Kapoor, *Oriental Insects*, 4(2) : 243.

**Material.**—24 exs., Ghaghra, Ranchi Dist., 23. xii. 1967, and 1 ex., Kuru, Ranchi Dist., 12. xii. 1967; coll. R. Tilak.

**Remarks.**—Earlier recorded from Puri, Orissa; Parasnath, Bihar; Calcutta, W. Bengal; Simla, Himachal Pradesh.

### 18. *Tephritis spiloptera* Bezzi

1913. *Tephritis spiloptera* Bezzi, *Mem. Indian Mus.*, 3 : 165-166, pl. 10, fig. 68.

1970. *Tephritis spiloptera* Bezzi: Kapoor, *Oriental Insects*, 4(2) : 240.

**Material.**—1 ex., Netarhat, Ranchi Dist., 22. i. 1954; coll. A. P. Kapur. 2 exs., Ghaghra, Ranchi Dist., 23. xii. 1967; coll. R. Tilak.

**Remarks.**—The specimen bearing Reg. No. 4540/H6, without blackish stripes on the thorax.

Originally described from Calcutta, W. Bengal; National Zoological Collection, Calcutta, has specimens from several parts of India.

### Family SEPSIDAE

#### 19. *Sepsis himalayensis* Brunetti

1909. *Sepsis himalayensis* Brunetti, *Rec. Indian Mus.*, 3 : 345-347, pl. 13, figs. 1-2.

**Material.**—2 exs., Mandar, Ranchi Dist., 7 xii. 1967; coll. R. Tilak.

**Remarks.**—So far reported only from Darjeeling.

#### 20. *Sepsis rufa* Macquart

1850. *Sepsis rufa* Macquart, *Dipt. Exot. Suppl.*, 4 : 269.

1909. *Sepsis rufa* Macquart: Brunetti, *Rec. Indian Mus.*, 3 : 359.

**Material.**—1 ex., Ghaghra, Ranchi Dist., 23. xii. 1967.

**Remarks.**—Recorded from Calcutta and Darjeeling, W. Bengal; Simla, Himachal Pradesh; Shillong, Assam; Puri, Orissa; also from Rangoon.

### Family SCIOMYZIDAE

#### 21. *Sepedon aenescens* Wiedemann

1830. *Sepedon aenescens* Wiedemann, *Auss. Zweifl.*, 2 : 579.

1907. *Sepedon aenescens* Wiedemann: Brunetti, *Rec. Indian Mus.*, 1 : 213.

*Material.*—1 ex., Netarhat, Ranchi Dist., 22. i. 1954, and 1 ex., Netarhat, Ranchi Dist., 22-26. i. 1954; coll. A. P. Kapur.

*Remarks.*—It is earlier recorded from Bangalore, S. India.

## 22. *Sepedon plumbellus* Wiedemann

1830. *Sepedon plumbellus* Wiedemann, *Auss. Zweift.*, 2 : 577.

1907. *Sepedon plumbellus* Wiedemann: Brunetti, *Rec. Indian Mus.*, 1 : 212-213.

*Material.*—1 ex., Mandar, Ranchi Dist., 6. xii. 1967, and 1 ex., Mandar, Ranchi Dist., 7. xii. 1967; coll. R. Tilak.

*Remarks.*—Known to occur in Calcutta, W. Bengal; Dharampur, Simla Hills.

## 23. *Sepedon ferruginosus* Wiedemann

1830. *Sepedon ferruginosus* Wiedemann, *Auss. Zweift.*, 2 : 577.

1907. *Sepedon ferruginosus* Wiedemann: Brunetti, *Rec. Indian Mus.*, 1 : 215-216.

*Material.*—1 ex., Basia, Ranchi Dist., 26. xii. 1967, and 1 ex., Basia, Ranchi Dist., 27. xii. 1967; coll. R. Tilak.

*Remarks.*—Common in Clacutta, W. Bengal; Orissa; also reported from Rangoon, Buima.

## Family CHLOROPIDAE

### 24. *Pachylophus rufescens* (de Meijere)

1904. *Myrmemorpha rufesceno* de Meijere *Bijdr Dierkunde*, 17 : 113.

1913. *Pachylophus rufescens* (de Meijere): Brunetti, *Rec. Indian Mus.*, 8 : 188-189.

*Material.*—1 ex., Mandar, Ranchi Dist., 29. i. 1954, and 4 exs., Kunti, Ranchi Dist., 17. ii. 1954; coll. A. P. Kapur. 1 ex., Kuru, Ranchi Dist., 12. xii. 1969, and 1 ex., Lohardaga, Ranchi Dist., 17. xii. 1969; coll. R. Tilak.

*Remarks.*—Earlier reported from Dibrugarh, Assam; Monghyr, Rajmahal and Manbhumi, Bihar; also from Nepal.

## Family CALLIPHORIDAE

### 25. *Chrysomyia megacephala* (Fabricius)

1784. *Musca megacephala* Fabricius, *Syst. Ent.*, 4 : 317.

1940. *Chrysomyia megacephala* (Fabricius): Senior-White, Aubertin and Smart, *Fauna Brit. India, Diptera*, 6 : 138-140, figs. 64, 65a.

*Material.*—1 ex., Mandar, Ranchi Dist., 6. xii. 1967, 1 ex., Mandar, Ranchi Dist., 7. xii. 1967, and 4 exs., Mandar, Ranchi Dist., 8. xii. 1967; coll. R. Tilak.

*Remarks.*—Apical half of arista black in specimens bearing Reg. Nos. 4572/H6 and 4573/H6.

Of common occurrence in Oriental and Australian Regions.

### 26. *Chrysomyia rufifacies* (Macquart)

1842. *Lucilia rufifacies* Guer in Macquart, *Mem. Soc. Roy. Sci. Arts Lille, Année*, p. 303.  
 1940. *Chrysomyia rufifacies* (Macquart): Senior-White, Aubertin and Smart, *Fauna Brit. India, Diptera*, 6 : 141-143, fig. 67.

**Material.**—1 ex., Kuru, Ranchi Dist., 15. xii. 1967; coll. *R. Tilak*.

**Remarks.**—Hairs on lower squama mainly black. Thoracic stripe absent. Very common all over the Orient and Australian Regions.

### 27. *Chrysomyia nigripes* Aubertin

1932. *Chrysomyia (Microcalliphora) nigripes* Aubertin, *Ann. Mag. nat. Hist.*, (10) 9 : 26.  
 1940. *Chrysomyia nigripes* Aubertin: Senior-White, Aubertin and Smart, *Fauna Brit. India, Diptera*, 6 : 147-148, fig. 72.

**Material.**—3 exs., Old Anqua, Chaibasa Dist., 13. ii. 1955; coll. *A. P. Kapur*.

**Remarks.**—Originally described from Sri Lanka. It is recorded for the first time from India; also new to ZSI.

### 28. *Stomorhina discolor* (Fabricius)

1794. *Musca discolor* Fabricius, *Ent. Syst.*, 4 : 320.  
 1940. *Stomorhina discolor* (Fabricius): Senior-White, Aubertin and Smart, *Fauna Brit. India, Diptera*, 6 : 192-194, text-fig. 89.

**Material.**—2 exs., Mandar, Ranchi Dist., 7. xii. 1967, and 5 exs., Basia, Ranchi Dist., 26. xii. 1967; coll. *R. Tilak*.

**Remarks.**—The specimen bearing Reg. No. 4570/H6, de with the wing apex broadly and deeply infuscated; the front tarsi all black excepting the brownish yellow basal segment.

Distributed generally in India; recorded also from Sri Lanka; Malaya; Java; Borneo; Philippine Islands; Hong Kong; Buru Island; N. Australia; New Caledonia; Fiji.

### Family SARCOPHAGIDAE

#### 29. *Sarcophaga albiceps* Meigen

1826. *Sarcophaga albiceps* Meigen, *Syst. Besch.*, 5 : 22.  
 1940. *Sarcophaga albiceps* Meigen: Senior-White, Aubertin and Smart, *Fauna Brit. India, Diptera*, 6 : 242-243, fig. 120.

**Material.**—2 exs., Old Anqua, Chaibasa Dist., 13. ii. 1955, and 1 ex., Old Anqua, Chaibasa Dist., 16. ii. 1955; coll. *A. P. Kapur*. 1 ex., Mandar, Ranchi Dist., 8. xii. 1967; coll. *R. Tilak*.

**Remarks.**—Widely distributed in the Orient including India; also recorded from Europe; Palestine; Australia.

30. **Sarcophaga hirtipes** Wiedemann var. **orchidea** Böttcher

1913. *Sarcophaga orchidea* Böttcher, Ann. Mus. Nat. Hung., 11 : 375.  
 1940. *Sarcophaga hirtipes* Wiedemann var. *orchidea* Böttcher, Senior-White, Aubertin and Smart, Fauna Brit. India, Diptera, 6 : 244-245, fig. 121.

*Material.* —1 ex., Basia, Ranchi Dist., 26. xii. 1967; coll. R. Tilak.

*Remarks.* —Occur generally throughout India; also occur in Burma; Sri Lanka; Philippines; Formosa; N. China; Australia.

31. **Sarcophaga orientaloides** Senior-White

1924. *Sarcophaga orientaloides* Senior-White, Rec. Indian Mus., 26 : 244, pl. 15, fig. 31.  
 1940. *Sarcophaga orientaloides* Senior-White: Senior-White, Aubertin and Smart, Fauna Brit. India, Diptera, 6 : 251-253, fig. 129.

*Material.* —2 exs., Mandar, Ranchi Dist.; 8. xii., 1967; coll. R. Tilak.

*Remarks.* —Widely distributed in India; also reported from Sri Lanka; Burma; Siam; Malaya.

32. **Sarcophaga ruficornis** (Fabricius)

1794. *Musca ruficornis* Fabricius, Ent. Syst., 4 : 314-316.  
 1940. *Sarcophaga ruficornis* (Fabricius) : Senior-White, Aubertin and Smart, Fauna Brit. India, Diptera, 6: 269-270, fig. 145.

*Material.* —1 ex., Lohardaga, Ranchi Dist., 17. xii. 1969; coll R. Tilak.

*Remarks.* —Widely distributed in India; also reported from Sri Lanka; Malacca; Philippines; Formosa; N. E. Africa; the Chagos Archipelago; Socotra Island.

## Family MUSCIDAE

33. **Musca (Musca) domestica vicina** Macquart

1851. *Musca vicina* Macquart, Mem. Soc. Sci. Agric. Arts Lille, p. 226.  
 1965. *Musca (Musca) domestica vicina* Macquart: Emden, Fauna India, Diptera, 7 (1) : 55.

*Material.* —1 ex., Mandar, Ranchi Dist., 6. xii. 1967; coll. R. Tilak.

*Remarks.* —World wide in Tropics and Subtropics. Very common in whole of Orient.

34. **Musca (Byomyia) ventrosa** Wiedemann

1830. *Musca ventrosa* Wiedemann, Auss. Zweifl., 2 : 656.  
 1965. *Musca (Byomyia) ventrosa* Wiedemann: Emden, Fauna India, Diptera, 7 (1) : 60-61.

*Material.* —1 ex., Basia, Ranchi Dist., 25. xii. 1967; coll. R. Tilak.

*Remarks.* —Of common occurrence in the Ethiopian and Oriental Regions.

### 35. *Musca (Byomyia) sorbens* Wiedemann

1830. *Musca sorbens* Wiedemann, *Auss. Zweifl.*, 2 : 418.

1965. *Musca (Byomyia) sorbens* Wiedemann: Emden, *Fauna India, Diptera*, 7 (1) : 61-63, fig. 14.

**Material.** —1 ex., Topadi, Chaibasa Dist., 8. ii. 1955; coll. A.P. Kapur. 1 ex., Mandar, Ranchi Dist., 6. xii. 1967, and 1 ex., Basia, Ranchi Dist., 27. xii. 1967; coll. R. Tilak.

**Remarks.** —Distributed throughout the Ethiopian, Australian and Oriental Regions.

### 36. *Musca (Byomyia) lucens* (Villeneuve)

1922. *Pristirynchomyia lucens* Villeneuve, *Ann. Sci. nat. (Zool.)*, 5 (10) : 336.

1965. *Musca (Byomyia) lucens* (Villeneuve): Emden, *Fauna India, Diptera*, 7 (1) : 63-64, pl. 1, fig. 1.

**Material.** —1 ex., Netarhat, Ranchi Dist., 22. i. 1954; coll. A. P. Kapur.

**Remarks.** —Abdominal sternites are dark brown to blackish, instead of the usual fuscous black.

Reported for the first time from India; also new to ZSI. So far known only from Sri Lanka and N. E. Burma.

### 37. *Musca (Byomyia) pattoni* Austen

1910. *Musca pattoni* Austen, *Ann. Mag. nat. Hist.*, (8) 5 : 114.

1965. *Musca (Byomyia) pattoni* Austen: Emden, *Fauna India, Diptera*, 7 (1) : 64-65, text-fig. 15.

**Material.** —1 ex., Mandar, Ranchi Dist., 6. xii. 1967, 1 ex., Basia, Ranchi Dist., 25. xii. 1967, and 3 exs., Basia, Ranchi Dist., 26. xii. 1967, coll. R. Tilak.

**Remarks.** —Recorded from S. India to N. W. Uttar Pradesh; Assam; also from Sri Lanka.

### 38. *Musca (Philaematomyia) crassirostris* Stein

1903. *Musca crassirostris* Stein, *Mitt. Zool. Mus. Berlin*, 2 : 99.

1965. *Musca (Philaematomyia) crassirostris* Stein: Emden, *Fauna India, Diptera*, 7 (1) : 71-72, fig. 11b.

**Material.** —1 ex., Mandar, Ranchi Dist., 6. xii. 1967 and 7 exs., Kuru, Ranchi Dist., 15. xii. 1967; coll. R. Tilak.

**Remarks.** —Distributed in whole of the Oriental Region; also in Mediterranean; Socotra Sudan; Belgian Congo; S. Rhodesia; Transvaal.

**39. *Musca (Viviparomusca) bezzii* Patton and Cragg**

1913. *Musca bezzii* Patton and Cragg, *Ind. J. med. Res.* 1 : 19, pl. 4.  
 1965. *Musca (Viviparomusca) bezzii* Patton and Cragg: Emden, *Fauna India*, 7 (1) : 83-84, figs. 10e, 11a, 12, 19.

*Material.*—1 ex., Tholkabad, Chaibasa Dist., 9. ii. 1955; coll. A. P. Kapur.

*Remarks.*—Occurring commonly in India at altitudes of 450 m. and above.

**40. *Orthellia coerulea* (Wiedemann)**

1819. *Musca coerulea* Wiedemann, *Zool. Mag.*, 3 : 23.  
 1965. *Orthellia coerulea* (Wiedemann): Emden, *Fauna India*, Diptera, 7 (1) : 124-125, pl. 1, fig. 4.

*Material.*—3 exs., Old Anqua, Chaibasa Dist., 13. ii. 1955; coll. A. P. Kapur. 1 ex., Basia, Ranchi Dist.; 26. xii. 1969; coll. R. Tilak.

*Remarks.*—Reported from India; Sri Lanka; Sikkim; Nepal; Burma; Malaya; Siam; China; Formosa; Japan; Indonesia to Australia; Solomon Islands.

**41. *Orthellia lauta* (Wiedemann)**

1830. *Musca lauta* Wiedemann, *Auss. Zweifl.*, 2 : 410.  
 1965. *Orthellia lauta* (Wiedemann): Emden, *Fauna India*, Diptera 7 (1) : 128-130.

*Material.*—1 ex., Basia, Ranchi Dist., 26. xii. 1967; coll. R. Tilak.

*Remarks.*—Widely distributed in India; also recorded from Sri Lanka; Nepal; Burma; Malaya; Siam; Laos; Sumatra; Borneo; Java; Lombok; Australia.

**42. *Stomoxys calcitrans* (Linnaeus)**

1758. *Conops calcitrans* Linnaeus, *Syst. Nat.* ed. 10 : 604.  
 1965. *Stomoxys calcitrans* (Linnaeus): Emden, *Fauna India*, Diptera, 7 (1) : 160-161, figs. 35-37.

*Material.*—1 ex., Mandar, Ranchi Dist., 7. xii. 1967; coll. R. Tilak.

*Remarks.*—Of world-wide occurrence, including throughout the Orient.

**43. *Gymnodia tonitruai* (Wiedemann)**

1824. *Anthomyia tonitruai* Wiedemann, *Anal. Ent.* p. 52.  
 1965. *Gymnodia tonitruai* (Wiedemann): Emden, *Fauna India*, Diptera, 7 (1) : 631-633.

*Material.*—1 ex., Basia, Ranchi Dist., 26. xii. 1967; coll. R. Tilak.

*Remarks.*—Distributed in N. and C. India; Assam; also in W. Pakistan; Singapore; Formosa. The species is not so far recorded from S. India.

## Family HIPPOBOSCIDAE

44. *Hippobosca longipennis* Fabricius

1805. *Hippobosca longipennis* Fabricius, *Syst. Antiat.*, p. 338.

1962. *Hippobosca longipennis* Fabricius: Maa, *Pacific Insects*, 4 (3) : 610-611, figs. 14, 16, 18, 19, 21, 23.

**Material.**—6 exs., Mandar, Ranchi Dist., 7. xii. 1967; coll. R, Tilak.

**Remarks.**—Aedeagus comparatively large. A common pest of domestic dog.

Widely distributed throughout India; common in Manchuria and China proper.

## SUMMARY

This paper records 44 species of Diptera from Chota Nagpur belonging to 13 families; 2 of which, *Chrysomyia nigripes* Aubertin (Calliphoridae) and *Musca (Byomyia) lucens* (Villeneuve) (Muscidae), are reported for the first time from India. Of the remaining 42 species, 38 are reported for the first time from this area, the rest 4 known species are *Sarcophaga hirtipes* Wiedemann var. *orchidea* Bottcher, *S. orientaloides* Senior-White and *S. ruficornis* (Fabricius) belonging to Sarcophagidae and *Stomoxys calcitrans* (Linnaeus) belonging to Muscidae.

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