

ANNEXURE

**(KEY TO THE TERMITE TAXA FROM
STUDY AREA)**

KEY TO THE TERMITE TAXA RECORDED FROM STUDY AREA

Key is based on soldier caste

1. Pronotum flat Rhinotermitidae. (3)
2. Pronotum saddle-shaped Termitidae. (6)
3. Head-capsule oval-shaped; fontanelle large, circular and lying medially at the interior margin..... *Coptotermes* Wasmann, 1896. (4)
- Head capsule sub rectangular fontanelle small and lying at the middle of the head dorsum..... *Heterotermesrotermes* Silvestri, 1901 (5)
4. Larger species, waist of postmentum lying in the middle of the line connecting the level of maximum width and hind margin; postmentum with minimum width of 0.25-0.34 mm. Head- length 1.2-1.4 and head- width 1.0-1.35 mm. Soldiers exude white milky substances from fontanelle when disturb. Population of soldiers high in the colony *Coptotermes heimi*.
5. Smaller species, Pronotum distinctly notched at both anterior and posterior direction, antennal segments generally more than 14. Head- length 1.33-1.77 mm., head- width 0.83-1.00 mm. *Heterotermes indicola*.
6. Head not produced into the Nasute, mandibles well developed. (7)

Annexure

- Head produced into the Nasute, mandibles degenerated

Trinervitermes Holmgren, 1912 (18)

7. Mandibles serrated on inner margin.....

Microceratermes Silvestri, 1909 (8)

- Mandibles not serrated inner margin, a tooth or a few crenulations near base may be present, head without any protuberance

Amitermes Silvestri, 1901 (11)

- Left mandible without any tooth, mandibles delicate and without crenulations

Microtermes Wassmann, 1902 (12)

- Left mandible with prominent tooth

Odontotermes Holmgren, 1912 (15)

8. Mandibles finely serrated (9)

- Mandibles coarsely serrated (10)

9. Smaller species, mandibles long (length 0.87-0.95 mm) and slender

..... *Microcerotermes tenuignathus*

10. Mandibles shorter (length 0.83-0.97 mm) and thicker. Antero-median margin of Pronotum weakly notched; postmentum reactively less narrowed at

the posterior fourth *Microcerotermes beelsoni*.

Annexure

11. Clypeus bilobed. Head- length 1.07-1.44 mm. and head- width 0.85-1.15 mm *Amitermes belli*.
12. Labrum tongue shaped (13)
- Labrum comparatively broad the tip (14)
13. Antennae with 15 segments
..... *Microtermes mycophagus*.
14. Head-capsule densely hairy; second segment of antennae shorter than combined length of third and forth segments..... *Microtermes unicolor*.
- Head-capsule moderately hairy; second segment of antennae equal to the combined length of third and forth segments..... *Microtermes obesi*.
15. Tooth of the left mandible situated above middle point; smaller species (16)
- Tooth of the left mandible situated near middle or bellow middle point; larger species (17)
16. Postmentum not wide' sides sub parallel to weakly arched. Head and body more hairy, antennae with 15-16 segments, mandible shorter and stouter, labrum broadly rounded interiorly, postmentum convex laterally..... *Odontotermes guptai*.

Annexure

- Mandible longer, outer margin shortly bent near the basal third. Index mandible length/ head length to the base of the mandible 0.69-0.79 mm.

..... *Odontotermes redemanni*.

- Mandible short, slender with weakly curved outer margin. Mandible index length/ head length 0.59-0.68 mm; labrum short, broadly rounded interiorly

..... *Odontotermes obesus*

- Inner margin anterior to tooth on the left mandible wavy, parrot's beak-like; smaller species; distance of teeth from the tip of mandible 0.28-0.35 mm.; mandible tooth index 0.33-0.37 mm. *Odontotermes assmuthi*.

17. Tooth on left mandible placed a little below the middle; mandible tooth index 0.51-0.55 mm. *Odontotermes bhagwathi*.

- Tooth on left mandible placed near the middle; mandible tooth-index 0.50-0.54; head-capsule widest near the posterior third

..... *Odontotermes feae*.

18. Soldier major: Antennae 12-14 segmented, in fourteen segmented condition third segment slightly longer than second segment; pronotum weakly invaginated interiorly *Trinervitermes bifomes*.

Soldier minor: Anterior margin of pronotum without any emargination *Trinervitermes bifomes*.