



**Identification and morphological characterization of *Romalia* Grasshopper from the region of Amethi, Uttar Pradesh, India**

Saleem Ahamad, Rajneesh Tripathi<sup>1</sup>

Department of zoology

1.Jagdeesh Prasad Jhabarmal Tiberawala University, Jhunjhunu, Rajasthan, India

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**Abstract:** Grasshoppers are a major pest of cultivated crops and rangeland in the world's semiarid regions which belong to the order Orthoptera of phylum Arthropoda. They are typically ground-dwelling insects with powerful hind legs which enable them to escape from threats by leaping vigorously. Grasshoppers are plant-eaters, sometimes becoming serious pests of cereals, vegetables and pasture, especially when they swarm in their millions as locusts and destroy crops over wide areas. Like all insects, the body of grasshoppers is divided into three main parts: head, thorax, and abdomen. A source of protein, grasshoppers have been eaten in nearly all regions at various eras. For the study on identification and morphological characterization, two species of Genus *Romalia* Grasshopper comprised of 80 samples were collected from various sampling sites of District Amethi, Uttar Pradesh, India. These samples were identified with the help of standard taxonomic keys and various morphological characteristics variation pattern recorded. After that these samples were preserved in 70% formalin solution for future reference. The record of the present study shows that the collected species were evenly distributed across all sampling sites of the Amethi region. The detailed identification features and patterns of morphological variations of species of *Romalia* Grasshopper were also recorded. The present study provides the important information on the morphological variation in different species of Grasshopper from the Amethi regions of Uttar Pradesh, India, which will be useful in acquiring a better understanding of the economic importance of this pest and planning more appropriate and effective control measures in future.

**Keywords:** *Romalia* Grasshopper, Identification, morphological variations, Amethi U.P.