ON THE OCCURRENCE OF *IXA INERMIS* LEACH IN INDIAN WATERS WITH TAXONOMIC NOTES ON THE SPECIES

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**ABSTRACT**

The Brachiuran crab, *Ixa inermis* Leach is recorded from the Bay of Bengal, and its male is being reported for the first time from the Indian Waters.

During the study of the trawler catches of Madras (Royapuram centre) two females and one male specimens of a Brachiuran crab, *Ixa inermis* Leach, were obtained. The original description of *Ixa inermis* by Leach (1817) is from a specimen obtained from Malay Archipelago. Suseelan (1971) recorded a single female specimen of this species from the west coast of India. This is the first record of *Ixa inermis* Leach from the Bay of Bengal and the male is recorded for the first time from the Indian Waters. Since *Ixa inermis* is known from only very few specimens Holthuis and Gottlieb (1956) suggested that more material has to be examined to get a clear picture of the species as they felt that the original description of the species by Leach (1817) was inadequate. Hence the specimens collected were examined carefully and described in greater detail here.

ORDER : DECAPODA

SUBORDER : BRACHIURA

Family : Leucosiidae

*Ixa inermis* Leach


Not *Ixa inermis* Alcock, 1896 and Chopra, 1933.

*Material:* One male (carapace length: 16 mm, carapace breadth: 51 mm), collected on 5th July, 1972, Off Royapuram, Madras, bottom trawl, 25m depth. Two females (C.L.: 17mm and 18.5mm, C.B.: 49mm and 51.5mm) collected on 15th February, 1973 off Madras, bottom trawl, 25m depth.
Description: Body rhomboidal and lateral projections of the carapace cylindrical with a small constriction at base. The lateral projections taper gradually and end in a sharp tubercle. The dorsal surface of the carapace with two broad longitudinal grooves which are bifurcated anteriorly and filled with tomentose pubescence. Edges of the groove rounded and they gradually merge with the dorsal surface of the carapace. Two small submedian granular tubercles on the posterior margin of the carapace. Surface of the carapace covered with numerous smaller granules which are slightly bigger on the lateral projections. Carapace with dark violet granules on the dorsal surface and with cream coloured bigger granules on the ventral surface. The buccal cavern is distinctly quadrangular. Third maxilliped partly below the level of the sharp edges of the buccal cavern, which are longitudinally hollowed along their inner border. The orbits deep, completely covering eyes. Antennules fold obliquely and set in a wide gap at the inner canthus. The chelipeds hardly thicker than the slender legs, less than twice the length of the carapace; the distal half of the hand almost filiform, the fingers almost half the length of the hand. The 3rd and 4th abdominal segments of male (Fig. 1-a) are coalescent and bear smaller granules. The 5th and 6th abdominal segments are smooth, being without tubercles. The first pleopod of male (Fig.1-b, c) has a distinct curve below its distal end as noticed by Holthuis and Gottlieb. This curve is deep in the present specimen.

Distribution: Malay Archipelago, Arabian Sea, Bay of Bengal. The present communication is the first record of the species from the Bay of Bengal.

Remarks: Although the characterestic features of the present specimens are in agreement with the description given by Holthuis and Gottlieb (1956)
slight variations observed are the following: (1) The submedian granules are
not very distinct as given by these authors. Among the three specimens at hand
they are illdefined in one and smaller in size in others. (2) The upper surface
of the 6th abdominal segment of the male does not bear any distinct granule.
(3) The lateral projections of the carapace of the present specimens have
different shapes, one being more cylindrical from the base to tip with an
abruptly ending tubercle and the others having gradually tapering to an
acuminate tip.

KEY TO THE INDIAN SPECIES OF *IXA*

A Longitudinal grooves on carapace sharply defined and with pubescence.
Third maxilliped with a few flattened and scattered tubercles:-

A-1 Grooves with ridges overhanging; carapace without submedian tubercle...  
*I. cylindrus* (Fabricius)

A-2 Edges of the grooves smooth and rounded; posterior margin of the carapace with two distinct submedian tubercles .......... *I. inermis* Leach

B Longitudinal grooves on carapace poorly defined; with no pubescence;
third maxilliped with large polygonal tubercles........ *I. edwardsii* Lucas

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**Chopra, B. 1933. Rec. Indian Mus., Vol. 35: 25-52.**

**Chopra, B. 1933a. Rec. Indian Mus., Vol. 35: 77-86.**

**Holtluis, L. B. AND E. Gottlieb. 1956. Two interesting crabs (Custacea, Decapoda,
Bruchiru) from Mersiam Bay, S. E. Turkey Vol. 34 (21): 287-99.**

**Leach, W. E. 1817 The Zoological Miscellany; being Descriptions of new or interesting Animals, Vol. 3: 1-151**


**Tirmizi, N. M. 1970. Crustacea Vol. 18: 312-14.**