

**CROSS BREEDING AND CULTURING OF FIVE  
DIFFERENT COLOURS OF “*Neocaridina davidi*  
SHRIMPS, TO GET COMMERCIAL PROFIT AND TO  
DEVELOP NEW COLOUR**



**BY**

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## ABSTRACT

The *Neocaridina davidi*, commonly known as aquarium shrimp, is favored among aquarists for its diverse body colors and ease of breeding. However, maintaining optimal water quality and tank conditions is crucial for successful breeding. In this study conducted between August and November 2023, *Neocaridina davidi* shrimp were cultured across nine tanks, with careful analysis of water quality. The impact of high temperatures, particularly prevalent in the Batticaloa area, directly influenced dissolved oxygen levels in the tanks, potentially hindering breeding success. By introducing specific color combinations of shrimp pairs, such as red cherry with orange or yellow, profitable offspring were obtained. However, combinations involving red cherry with blue velvet or black rose shrimp yielded various colors, including wild types, making them less suitable for profitable offspring. These findings underscore the importance of considering environmental factors and selective breeding strategies for maximizing breeding success and profitability in *Neocaridina davidi* shrimp aquaculture.

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