



REVIEWER'S REPORT

Manuscript No.: IJAR-50486

Date: 04-03-2025

Title: ASSESSMENT OF MINERAL SOURCES AND NUTRITIONAL STATUS OF THE IPHIGENIA STELLATA BLATT. SEEDS, CORMS AND CAPSULES WALLS

Recommendation:

- Accept as it is.....**YES**.....
- Accept after minor revision.....
- Accept after major revision
- Do not accept (*Reasons below*)

Rating	Excel.	Good	Fair	Poor
Originality	√			
Techn. Quality		√		
Clarity		√		
Significance			√	

Reviewer's Name: Mir Tanveer

Reviewer's Decision about Paper: **Recommended for Publication.**

Comments (*Use additional pages, if required*)

Reviewer's Comment / Report

The manuscript titled '*Assessment of Mineral Sources and Nutritional Status of the Iphigenia Stellata Blatt. Seeds, Corms, and Capsules Walls*' provides a detailed examination of the mineral content and nutritional composition of various parts of *Iphigenia stellata* Blatt. The study effectively presents valuable data on the macroelements, microelements, and nutrients found in seeds, corms, and capsule walls, contributing to the understanding of this plant's potential applications in herbal and pharmaceutical formulations.

The abstract succinctly summarizes the key findings of the study, highlighting the high moisture content in corms, the carbohydrate and mineral richness of capsule walls, and the protein and fiber abundance in seeds. The clarity in presenting these results strengthens the study's significance in nutritional and medicinal research.

The introduction provides a comprehensive background on *Iphigenia stellata* Blatt., detailing its taxonomic classification, common names, and reproductive characteristics. The discussion on the plant's presence in India and its six known species establishes a strong foundation for the study. The literature

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references further support the manuscript's relevance by connecting past research with the current investigation.

The materials and methods section is systematically presented, detailing the collection, processing, and analysis of plant parts. The study's rigorous methodology, including sterilization techniques and mineral analysis at an analytical research laboratory, ensures the reliability of the reported findings.

The results and discussion section effectively interprets the quantitative analysis of the plant's mineral and nutritional profile. The observations highlight the significant nutrient potential of *I. stellata*, with a detailed breakdown of mineral compositions and macronutrient concentrations. The manuscript integrates references to previous studies on related species, reinforcing the scientific basis of its conclusions.

The study's discussion on phytochemicals and their potential medicinal applications adds an important dimension to the research. Comparisons with existing literature, such as the studies on *I. magnifica* and *I. indica*, enhance the manuscript's depth by demonstrating the broader relevance of the findings. The mention of the plant's possible utilization in pharmaceutical industries underscores its practical significance.

Overall, the manuscript presents a thorough and well-organized investigation into the mineral and nutritional composition of *Iphigenia stellata* Blatt. It contributes valuable data to the field of botany and medicinal plant research, providing insights that may inform future studies on its applications in herbal and pharmaceutical sciences.