

### Review Form 3

Journal Name:	<a href="#">Chemical Science International Journal</a>
Manuscript Number:	Ms_CSIJ_128961
Title of the Manuscript:	Elements Analysis and Proximate Composition of <i>Guiera senegalensis</i> from West Kordofan, Sudan
Type of the Article	Original Research

#### **General guidelines for the Peer Review process:**

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound. To know the complete guidelines for the Peer Review process, reviewers are requested to visit this link:

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#### **Important Policies Regarding Peer Review**

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#### **PART 1: Comments**

	<b>Reviewer's comment</b>	<b>Author's Feedback</b> (Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
<b>Please write a few sentences regarding the importance of this manuscript for the scientific community. A minimum of 3-4 sentences may be required for this part.</b>	This manuscript investigates the nutritional and elemental composition of <i>Guiera senegalensis</i> , a widely used medicinal plant in Africa. It provides valuable data on its potential applications in the food and pharmaceutical industries. Given the plant's traditional use and reported medicinal properties, the findings could support its broader utilization as a source of essential nutrients and minerals. The work also highlights the plant's pharmacological potential, which could inspire further research into its bioactive compounds.	
<b>Is the title of the article suitable? (If not please suggest an alternative title)</b>	The title is suitable and accurately reflects the study's content. However, a slight modification for clarity is suggested: "Elemental Analysis and Proximate Composition of <i>Guiera senegalensis</i> Leaves from West Kordofan, Sudan."	

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<p><b>Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here.</b></p>	<p>The abstract summarizes the objectives, methodology, and key findings. However, it could benefit from better structuring and linguistic refinement. For example:</p> <ul style="list-style-type: none"> <li>• Include a brief mention of the methods (e.g., AOAC method for proximate analysis and ICP-OES for elemental analysis).</li> <li>• Clarify that the study focuses on the leaves of <i>G. senegalensis</i>.</li> <li>• Avoid redundant phrases such as "approximate composition" and "proximate contents."</li> </ul> <p>Suggested revised abstract : "This study investigates the proximate composition and elemental content of <i>Guiera senegalensis</i> leaves collected from West Kordofan, Sudan. Proximate analysis revealed moisture (4.142%), protein (12.250%), fat (4.248%), carbohydrate (51.496%), crude fiber (23.440%), and ash (4.424%). Elemental analysis using ICP-OES identified significant concentrations of Fe (860 ppm), K (840 ppm), Ca (810 ppm), and Mn (700 ppm), with trace amounts of other elements. These findings underscore the nutritional and pharmacological potential of <i>G. senegalensis</i>, supporting its use in traditional medicine and as a natural ingredient in food and pharmaceutical applications."</p>	
<p><b>Is the manuscript scientifically, correct? Please write here.</b></p>	<p>The manuscript is scientifically sound, but a few issues require attention :</p> <ul style="list-style-type: none"> <li>• Clarify the significance of certain findings, such as the implications of the high iron content.</li> <li>• Ensure consistency in reported values (e.g., avoid discrepancies in carbohydrate values between text and tables).</li> <li>• Discuss potential limitations, such as the small sample size and geographic specificity.</li> </ul>	
<p><b>Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.</b></p>	<p>The references are relevant but not fully up-to-date. Many citations are older than 10 years. It would enhance the manuscript to include more recent studies on medicinal plants and nutritional analyses. Suggested additions :</p> <ul style="list-style-type: none"> <li>• Include recent reviews on the nutritional and medicinal value of African plants.</li> <li>• Cite studies on the bioavailability of the elements reported.</li> </ul>	
<p><b>Is the language/English quality of the article suitable for scholarly communications?</b></p>	<p>The manuscript's language requires significant improvement for scholarly communication :</p> <ul style="list-style-type: none"> <li>• Correct grammatical errors (e.g., "the leaves powder was prepared" should be "the leaf powder was prepared").</li> <li>• Avoid informal language (e.g., "This study shows that the Guiera Senegalensis leaves are serve animal nutrition" should be revised).</li> <li>• Enhance clarity and conciseness throughout the text. <i>alensis</i> were dried under laboratory conditions and ground into a fine powder. Proximate analysis was conducted following AOAC methods."</li> </ul>	
<p><b>Optional/General</b> comments</p>	<ul style="list-style-type: none"> <li>• Provide more detailed methodological descriptions for reproducibility.</li> <li>• Include a brief discussion on how environmental factors (e.g., soil and climate) might affect the composition of <i>G. senegalensis</i>.</li> <li>• Highlight the potential toxicity of elements like iron and manganese at high concentrations.</li> </ul>	

### PART 2:

	<p><b>Reviewer's comment</b></p>	<p><b>Author's comment</b> (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</p>
<p><b>Are there ethical issues in this manuscript?</b></p>	<p><i>(If yes, Kindly please write down the ethical issues here in details)</i></p>	

### Reviewer Details:

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