

### Review Form 3

Journal Name:	<a href="#">Asian Journal of Research in Crop Science</a>
Manuscript Number:	Ms_AJRCS_130113
Title of the Manuscript:	EFFECT OF WATER LIMITATION ON GYNURA PROCUMBENS GROWTH AND PHYTOCHEMICAL CONTENT
Type of the Article	Original Research Article

#### **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**

	Reviewer's comment	Author's Feedback <i>(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i>
<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>	<p>This research provides valuable insights into the effects of water stress on Gynura procumbens, a medicinal plant with significant therapeutic properties. The findings are relevant for sustainable cultivation practices, particularly in water-scarce environments. Key contributions include:</p> <ol style="list-style-type: none"> <li>1. Demonstrating the adaptive responses of plants to water limitation, including changes in biomass allocation and secondary metabolite production.</li> <li>2. Highlighting the potential to optimize phytochemical content and antioxidant activity by modulating water availability.</li> <li>3. Offering practical implications for improving crop resilience and optimizing phytochemical yields under environmental stress.</li> </ol>	
<b>Is the title of the article suitable? (If not please suggest an alternative title)</b>	<p><b>Title Suitability</b></p> <p>The title accurately reflects the study's focus on water limitation and its effects on Gynura procumbens. No changes are suggested.</p>	

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<p>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.</p>	<p><b>Abstract</b> The abstract is clear and detailed, summarizing the study's objectives, methods, results, and significance effectively. Including specific values for key findings (e.g., TPC, chlorogenic acid levels, and antioxidant activity) enhances clarity.</p> <p><b>Scientific Accuracy</b> The manuscript is scientifically sound with well-defined objectives, detailed methodologies, and comprehensive statistical analysis. The study design (RCBD) is appropriate for the research objectives.</p>	
<p>Is the manuscript scientifically, correct? Please write here.</p>	<p><b>References</b> The references are adequate and recent, covering key studies on water stress and phytochemical analysis. However, additional references related to drought stress mechanisms in similar plants could enhance the discussion.</p>	
<p>Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.</p>	<p><b>Language and English Quality</b> The language is suitable for scholarly communication, though minor grammatical corrections and sentence refinements would improve readability.</p>	
<p>Is the language/English quality of the article suitable for scholarly communications?</p>		
<p><b>Optional/General</b> comments</p>	<p>1. Refine the language for clarity and grammatical precision.                  2. Experimental Conditions                  Recommendation: Include a description of controlled environmental conditions.(temperature, light, humidity.)                  3. Short-Term Focus                  Recommendation: Discuss the implications of prolonged or repeated water stress.                  4. Physiological Insights                  Recommendation: Incorporate such parameters in future studies for deeper insights.                  5. Antioxidant Analysis                  Recommendation: Expand the discussion to explain the differences using DppH and FRAP methods.                  6. Economic Relevance                  Recommendation: Highlight how findings can optimize cultivation for commercial use.                  7. Statistical Variability                  Recommendation: Include error bars or variability metrics in tables and figures.</p>	

**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>Are there ethical issues in this manuscript?</p>	<p><i>(If yes, Kindly please write down the ethical issues here in details)</i></p>	

**Reviewer Details**

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