

## Review Form 1.6

Journal Name:	<a href="#">Journal of Energy Research and Reviews</a>
Manuscript Number:	Ms_JENRR_81080
Title of the Manuscript:	Comparative Evaluation of the rheological and proppant handling capability of Detarium microcarpum as a viscosifier in Hydraulic Fracturing Fluid design
Type of the Article	Original Research Article

### **General guideline for 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 guideline for Peer Review process, reviewers are requested to visit this link:

(<https://www.journaljenrr.com/index.php/JENRR/editorial-policy> )

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**PART 1: Review Comments**

	<b>Reviewer's comment</b>	<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)
<b>Compulsory</b> REVISION comments	<p><b>Recommendation:</b> publish after minor revisions noted.</p> <p><b>Comments</b></p> <p>New rheological comparative study and investigations through shear stress and shear strain rate properties at 27 to 85°C, for Detarium microcarpum as a viscosifier in Hydraulic Fracturing Fluid design.</p> <p>Generally speaking the results are accurate, calibrated and well presented. The layout of the paper is satisfactory. The graphics are easily readable and the interpretations and conclusions are valid.</p> <p>As such, I would recommend that the paper can be published subject to the following minor changes.</p> <p><b>Special points and minor slips.</b></p> <p>Minor slips: Some minor slips are suggested in highlights in attached file.            Variables: Please take care to write all alphabetic variables in italic characters.            Degree: Please write the correct symbol as (°) not (O) or (0) in superscript.            Tables 1, 2 and 3: I prefer you write "Shear strain rate" than "Shear strain"</p> <p>Figures 1 to 6: Please add another digit for the slope; because the slope cannot be zero, it's in contradiction of the power law.            Figures 1 to 6: you have written straight lines equation, which correspond to the Bingham behavior (n=1), while you studied the Herschel-Bulkley behavior for which the flow behavior index is less than unit n &lt;1). Please give clear indication in the text of manuscript.            Table 1: the flow behavior index cannot be 0.1549 for 85°C, because the flow behavior index increased as the temperature rose and it approaches the Newtonian behavior..</p>	
<b>Minor</b> REVISION comments	<p>Minor slips: Some minor slips are suggested in highlights in attached file.            Variables: Please take care to write all alphabetic variables in italic characters.            Degree: Please write the correct symbol as (°) not (O) or (0) in superscript.            Tables 1, 2 and 3: I prefer you write "Shear strain rate" than "Shear strain"</p>	
<b>Optional/General</b> comments		

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**PART 2:**

	<b>Reviewer's comment</b>	<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)
<b>Are there ethical issues in this manuscript?</b>	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

**Reviewer Details:**

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