

Journal Name:	<a href="#">Journal of Basic and Applied Research international</a>
Manuscript Number:	<b>Ms_JOBARI_12375</b>
Title of the Manuscript:	<b>ASSESSMENT OF ALUMINUM ALLOY 6351 EGGHELL RE-ENFORCED COMPOSITE AS A DRY TURNING MACHINING MATERIAL USING RESPONSE SURFACE METHODOLOGY</b>
Type of the Article	

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**PART 1: Review Comments**

<b>Compulsory</b> REVISION 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>
<p><b>Please write a few sentences regarding the importance of this manuscript for the scientific community. Why do you like (or dislike) this manuscript? A minimum of 3-4 sentences may be required for this part.</b></p>	<p>Article is technically good and having novelty. Authors carried out dry turning of Aluminum Alloy 6351 eggshell reinforced composite using RSM. Measured responses are Cutting force (Fc), surface roughness (Ra), and material removal rate (MRR). Modeling of responses also carriedout using RSM.</p>	
<p><b>Is the title of the article suitable? (If not please suggest an alternative title)</b></p>	<p><b>Title of the article is modified slightly.</b> Suggestion for <b>alternative title</b> <b>“ASSESSMENT OF ALUMINUM ALLOY 6351 EGG SHELL REINFORCED COMPOSITE IN DRY TURNING USING RESPONSE SURFACE METHODOLOGY”</b></p>	
<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>1. abstract of the article is comprehensive. 2. <b>aluminium alloy 6351 replace with Aluminum Alloy 6351 throughout manuscript.</b> <i>“Magnesium powder (2%) was added to the molten metal to further improve wettability of the metal by increasing its surface energy, reducing the surface tension and reducing the matrix reinforcement interface energy” must be removed from abstract and add this in methods section.</i></p>	
<p><b>Are subsections and structure of the manuscript appropriate?</b></p>	<p><b>1.Subsections numbering is not provided</b></p>	

	<p>for Results and Discussion section  2. Subsections numbering is not provided  for Methods section</p>	
<p><b>Please write a few sentences regarding the scientific correctness of this manuscript. Why do you think that this manuscript is scientifically robust and technically sound? A minimum of 3-4 sentences may be required for this part.</b></p>	<p>Authors analysed thoroughly the responses using RSM. Method of preparing Aluminium Alloy 6351 reinforced with egg shell composite using stir casting is technically correct procedure is adopted. ANOVA also yielded correct results for all responses. Optimization using numerical method was done by authors.</p>	
<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>References sufficient but references are repeated author please rectify. please check below repeated references  - Abellán-Nebot, J. V., Vila Pastor, C., &amp; Siller, H. R. (2024). A Review of the Factors Influencing Surface Roughness in Machining and Their Impact on Sustainability. Sustainability, 16(5), 1917.  - Laghari, R. A., &amp; Li, J. (2021). Modeling and optimization of cutting forces and effect of turning parameters on SiCp/Al 45% vs SiCp/Al 50% metal matrix composites: a comparative study. SN Applied Sciences, 3(7), 706.  - Nwobi-Okoye, C. C., &amp; Uzochukwu, C. U. (2020). RSM and ANN modeling for production of Al 6351/ egg shell reinforced composite: Multi objective optimization using genetic algorithm. Materials Today Communications, 22, 100674.</p>	

<p>Minor REVISION comments</p> <p><b>Is the language/English quality of the article suitable for scholarly communications?</b></p>	<p>In all sections English revision is required</p>	
<p><b>Optional/General</b> comments</p>	<p><b>Quantitative assessment of <math>F_C</math> using ANOVA</b></p> <p>“Figure 9 shows the graph of <math>F_C</math> of predicted value against actual value”.</p> <ul style="list-style-type: none"> <li>- In the above line Figure 9 is wrong i.e Figure 10 please modify</li> <li>- Change Figure 14 caption as Figure 13</li> <li>- Provide Chemical composition of the Aluminium Alloy 6351</li> <li>-Add Mechanical Properties of the Aluminium Alloy 6351</li> <li>- Obtained results must be validated with the published results</li> <li>-Merge conclusion 5&amp;6 and remove conclusion 2.</li> </ul> <p>“The mass percentage of the composite is 15% egg shell reinforcement and 85% aluminum alloy” why particularly this mass % justification required?</p> <ul style="list-style-type: none"> <li>-Entire manuscript Replace Re-enforced with Reinfoced</li> </ul>	

**PART 2:**

	<b>Reviewer's comment</b>	<b>Author's comment</b> <i>(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)</i>
<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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