Review Form 3

Journal Name:	**Journal of Materials Science Research and Reviews**
Manuscript Number:	**Ms_JMSRR_130298**
Title of the Manuscript:	**MODELLING OF SURFACE ROUGHNESS AND DELAMINATION IN DRILLING PB PANELS WITH COATED CARBIDE SPADE DRILLS -RSM APPROACH**
Type of the Article	**Original Research Article**

PART 1: Comments

	Reviewer's comment	**Author's Feedback** *(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)*
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.		
Is the title of the article suitable? (If not please suggest an alternative title)	**Needs revisions**	
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.	**Needs revisions**	
Is the manuscript scientifically, correct? Please write here.	**Model development for surface roughness and delamination:** A mathematical model was developed to predict surface roughness and delamination during drilling of PB panels using Response Surface Methodology (RSM). **Factors affecting response variables:** The study investigated the influence of feed rate and spindle speed on surface roughness and delamination. **RSM analysis:** Analysis of Variance (ANOVA) was employed to validate the developed models. The high coefficient of determination (R2) indicated a good fit between the model and experimental data. **Key findings:** Feed rate was identified as the most significant factor affecting both surface roughness and delamination. Surface roughness decreased with increasing spindle speed and increased with increasing feed rate. Delamination followed a similar trend. **Further validation:** The verification experiments confirmed the accuracy of the model in predicting surface roughness within acceptable limits.	
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.	Needs improvements	

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Is the language/English quality of the article suitable for scholarly communications?	Grammer check needed	
Optional/General comments	Model development for surface roughness and delamination: A mathematical model was developed to predict surface roughness and delamination during drilling of PB panels using Response Surface Methodology (RSM). Factors affecting response variables: The study investigated the influence of feed rate and spindle speed on surface roughness and delamination. RSM analysis: Analysis of Variance (ANOVA) was employed to validate the developed models. The high coefficient of determination (R2) indicated a good fit between the model and experimental data. Key findings: Feed rate was identified as the most significant factor affecting both surface roughness and delamination. Surface roughness decreased with increasing spindle speed and increased with increasing feed rate. Delamination followed a similar trend. Further validation: The verification experiments confirmed the accuracy of the model in predicting surface roughness within acceptable limits.	

PART 2:

	Reviewer's comment	**Author's comment** *(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)*
Are there ethical issues in this manuscript?	*(If yes, Kindly please write down the ethical issues here in details)*	

Reviewer Details:

Name:	**Siavash Fathollahi Dehkordi**
Department, University & Country	**Shahid Chamran University of Ahvaz, Iran**