

Review Form 3

Journal Name:	Journal of Geography, Environment and Earth Science International
Manuscript Number:	Ms_JGEESI_127820
Title of the Manuscript:	PRELIMINARY STUDY OF THE IMPACT OF BED SURFACE ROUGHNESS ON FLOW TURBULENCE AND SEDIMENT GRAINS TRANSPORT: INFERENCES FROM LABORATORY FLUME EXPERIMENT.
Type of the Article	

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>
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.	The present study is an experimental investigation that examines the impact of bed roughness on flow turbulence. The criterion for turbulence assessed in this study is flow velocity, which was measured using an Acoustic Doppler Velocimeter (ADV). Various types of bed materials with different roughness characteristics were utilized in a laboratory rectangular flume with varying water heights to evaluate the effects of these beds on flow turbulence.	
Is the title of the article suitable? (If not please suggest an alternative title)	I suggest you use this title: "Impact of Bed Surface Roughness on Flow Turbulence and Sediment Movement: A Laboratory Study"	
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.	The abstract provided is too long for the findings of this study and goes into too many unnecessary details. I suggest that the findings be summarized in 150 words so that the reader can easily and quickly understand your research process.	
Is the manuscript scientifically, correct? Please write here.	Yes, the results obtained in this study are in the category of completely obvious results. In fact, there is no new and significant finding presented in this study.	
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.	I introduce a number of valuable studies in this field and I deeply believe that using the results of these studies can add to improving the quality of this research: 1- Papanicolaou, A. N., Diplas, P., Dancy, C. L., & Balakrishnan, M. (2001). Surface roughness effects in near-bed turbulence: Implications to sediment entrainment. <i>Journal of Engineering Mechanics</i> , 127(3), 211-218. 2- Mazumder, B. S., Ghoshal, K., & Dalal, D. C. (2005). Influence of bed roughness on sediment suspension: experimental and theoretical studies. <i>Journal of Hydraulic Research</i> , 43(3), 245-257. 3- Singh, A., & Fofoula-Georgiou, E. (2013). Effect of migrating bed topography on flow turbulence: Implications for modelling sediment transport. <i>Coherent Flow Structures at Earth's Surface</i> , 323-339.	

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<p>Is the language/English quality of the article suitable for scholarly communications?</p>	<p>Unfortunately, the quality of the article is very poor in terms of grammar and spelling, and it has fundamental flaws. It is essential that the article be reviewed again by a native-language editor.</p>	
<p>Optional/General comments</p>	<p>Although the present study does not provide results, the evidence presented by the authors supports their findings.</p> <p>I strongly recommend that the following revisions be made</p> <ol style="list-style-type: none"> 1. As researchers in the field of engineering, you are required to avoid presenting results qualitatively as much as possible across various research areas (including the current study). Instead, results should be presented quantitatively, accompanied by statistics and charts. Therefore, refrain from using vague statements such as "as the distance from the bed increases, turbulence decreases," as this raises many questions for the reader, including: To what extent does turbulence decrease? Additionally, since you have the velocity values and the ranges of velocity changes for all cases, you can provide a solid quantitative comparison of the results. 2. The quality of all figures presented is very low. I recommend using high-resolution images. 3. I emphasize the need to seek assistance from a language editor to address grammatical and stylistic issues. 	

PART 2:

	<p>Reviewer's comment</p>	<p>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)</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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<p>Department, University & Country</p>	<p>Behbahan Khatam Alanbia University of Technology, Iran</p>