



SDI Review Form 1.6

Journal Name:	British Journal of Applied Science & Technology
Manuscript Number:	Ms_BJAST_23000
Title of the Manuscript:	An experimental study of the influence of open channel hydraulic parameters and soil gradation on jet pump sand removal's efficiency
Type of the Article	Original research papers

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:

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PART 1: Review Comments

	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)
Compulsory REVISION comments	1. From Fig. (3) to Fig. (6) we can see all the x-axis parameters are not dimensionless, the expressions are really not good consideration. If you do the similarity analyses at the beginning, you will not spend much time in them. 2. In Section 4-1 Effect of water depth on jet pump sand removal's efficiency, you say this may be due the fact that for each jet pump (size, geometric dimensions, and feeding pump properties) an ideal water depth which gives maximum efficiency. Do you consider the following factors such as Reynold number, velocity in the nozzle, friction factor f (moody diagram), contraction ratio for energy loss? 3. How is the relationship between V_t and Q_T in Fig. (7)?	1. The x-axis parameters of fig. 4 & 6 are dimensionless. While they are not dimensionless in fig. 3&5 as they only represent a sample of experimental data. 2. The research is interested in the effect of open channel hydraulic parameters on jet pump sand removal's efficiency. The used jet pump prototype is the same in all runs so we did not consider the hydraulic properties of jet pump itself. (Added)222-229 3. V_t is the total volume of sediment mixture while Q_T is the product of open channel discharge and run time. (Added below the fig)
Minor REVISION comments		
Optional/General comments		