

Review Form 3

Journal Name:	Archives of Current Research International
Manuscript Number:	Ms_ACRI_121000
Title of the Manuscript:	Performance evaluation of Microcontroller-Based Weight Measurement System for Liquid Agriculture produces
Type of the Article	Original Research Article

General guidelines for the 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 guidelines for the Peer Review process, reviewers are requested to visit this link:

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PART 1: Review Comments

Compulsory 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>
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.	It is important since it can be a good alternative for accurate and effective measurement of volume using weight of liquid and density. Another reason is the components used in the system are relatively cheap and available for purchase.	
Is the title of the article suitable? (If not please suggest an alternative title)	The title is a bit misleading since it mentions weight measurement, but the desired final output displayed in the Results table is in Volume (Liters). While the system measures the weight the desired output is volume. Suggestion: Performance evaluation of Microcontroller-Based volume measurement System for Liquid Agriculture produces using a load cell	
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 was comprehensive but is it vital to use the term "novel"? I suggest the deletion of this term as this may confuse readers that this system is a discovery. Other research studies also use load cells and microcontrollers to determine the weight of certain materials or products.	
Are subsections and structure of the manuscript appropriate?	Yes.	
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.	The manuscript was written in a way that is easy to understand since the subsections were discussed in proper order. Additionally, the process flow of how the signal is processed was explained clearly so that it was easy to understand. Lastly, multiple sample liquids were used to properly verify the accuracy of the system.	
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.	The references are sufficient and recent.	
Minor REVISION comments	Yes.	
Is the language/English quality of the article suitable for scholarly communications?		
Optional/General comments	As mentioned in the manuscript, the LCD is the one being powered ON and OFF but it should be the ATMEGA328P since that is where the program/code for tare is. Also, instead of powering ON and OFF the system to tare the weight of the container, why not just add a tare button? Frequent powering ON and OFF of a microcontroller might reduce its lifespan. Was the effect of vibration considered during the measurement of weight? Vibration either coming from the system itself or externally may affect the measured weight. Also, it was not mentioned in the manuscript but is the temperature of the liquid considered during the calculation of volume using the measured weight and density. This is because the temperature affects the density of the liquid products.	

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PART 2:

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

Reviewer Details:

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