



**SDI Review Form 1.6**

Journal Name:	<a href="#">Physical Science International Journal</a>
Manuscript Number:	Ms_PSIJ_40600
Title of the Manuscript:	Development of Viscosity Measuring Device using Vibrational Technique
Type of the Article	Original Research Article

**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:

(<http://www.sciencedomain.org/page.php?id=sdi-general-editorial-policy#Peer-Review-Guideline>)

**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)
<b>Compulsory</b> REVISION comments	<ol style="list-style-type: none"> <li>1. No real detail about the circuits used in the experiment is available in the paper. For example which optocoupler is used to measure the motion of bob is not clear and even how the optocoupler is used is not mentioned.</li> <li>2. Circuit of how voltage and current is measured using the microcontroller is not available in the text. Since it is a vital measurement here, I think it should be added.</li> <li>3. Equations 1.0 and 1.1 are not visible in the PDF, at least the copy I received. I think the equation should be viewable for anyone to make sense of the text.</li> <li>4. Also about the conclusion of 97.13% accuracy is not statistically valuable since the number of data taken is not statistically significant. I think more data should be measured in order to make the results more statistically significant.</li> </ol>	<ol style="list-style-type: none"> <li>1. Circuit and clearer block diagram have been added. Details about the optocoupler has been included.</li> <li>2. The microcontroller takes in voltage and current through its input pins then displays the values on the LCD.</li> <li>3. The equations have been re-written correctly</li> <li>4. Only a few available liquid samples were tested. It is intended that the work will be modified later so that it will have a data-logger for keeping records of as many as possible samples.</li> </ol>
<b>Minor</b> REVISION comments	<ol style="list-style-type: none"> <li>1. The block diagrams in figure 1 and 2 are not clear. I think these block diagrams, being the vital part for understanding the mechanism, should be clearer.</li> <li>2. There is no photo of real setup used which may make someone suspicious about the authenticity of the experimental setup done. I think there should be at least 1 photo of the real setup used.</li> </ol>	<ol style="list-style-type: none"> <li>1. The block diagrams have been enlarged for clarity.</li> <li>2. Detailed explanations have been added with clearer images and block diagrams.</li> </ol>
<b>Optional/General</b> comments	I liked the research topic. I think more research on the topic needs to be done in order to improve the accuracy and drive the cost down for measuring instruments. Overall I liked the research paper, especially for its effort to make a cost effective solution for measuring viscosity.	