Review Form 1.6

Journal Name:	**Journal of Engineering Research and Reports**
Manuscript Number:	**Ms_JERR_84084**
Title of the Manuscript:	**MICROWAVE RADIATION TECHNOLOGY AS A NON-DESTRUCTIVE TESTING METHOD FOR DETECTING BLACK HEART IN POTATO**
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:

(https://www.journaljerr.com/index.php/JERR/editorial-policy)

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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	**The manuscript presents a study carried out on potato samples for testing its purity through non-destructive testing using the transmission of electromagnetic waves through it and measuring the change its di-electric properties (S_{21}). A healthy sample shall have a relatively higher S_{21} than that of a less damaged/less pure potato. Overall, the manuscript is written well and I propose some amendments to be incorporated in revised version.** **1. Review the paper for typographical errors. For eg: Abstract, line 5, "hearth"** **Also, there are technical writing issues. It needs significant clean up.** **2.The quality of figures is marginal. The font size is not properly visible.** **3. What if a randomly tested sample is already damaged, and there is no control/reference value at the operating frequency, how to decide if the tested sample is damaged or not?** **4. How may samples can be tested and the time required? I could not see any mention on that. Further, how this process can be used to automate testing?** **5. Have the authors checked repeatability of their measurements? No matter at pure/impure state of tested sample?** **6. How about the size of the samples? No mention on that.** **7. Does the surface of potato sample needs some polishing? An actual sample may exhibit dust/soil particles and/or small covers. Does it guarantee to measure adequately its di-electric property?** **8.More technical details on the laptop used and the experimental setup is required. I propose to add a new block diagram/update with additional details.**	
Minor REVISION comments	See above compulsory comments	
Optional/General comments	See above compulsory comments	

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:

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