

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>)

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	<ol style="list-style-type: none">Can you justify this statement in introduction ? Some of NDT technologies that have been developed for use in area of agricultural includes; Computerized Tomography (CT) that is based on gamma ray radiation [2], Magnetic Resonance Imaging (MRI) based on ultra-high magnetic fields [3], NMR based on the spins of atomic nuclei [4] Positron Emission Tomography (PET)What percentage of Accuracy you achieved?On what basis your method is superior with existing methods?You must include comparative results	<ol style="list-style-type: none">As reported in literature cited, the methods have been exploredQuite no of samples were tested, only twelve just reported. But whichever sample tested, rf signal will pass through it and there will be a display spectrum. The question is does it give accurate result of the state of the samples?, out of 50 potato samples scanned and cut open to verify the actual state of the internal tissue, 43 were correct and 7 samples were false result. Accuracy up to 86%This method is superior to others because of its non-selective of conductive and non-conduct materials, not limited by whether (night and day) and the simplicity in usage.included in section 3.2 last paragraph
Minor REVISION comments	<ol style="list-style-type: none">Down the frequency values to bottom line of graph (-25) in figures 5,6,8It is worth mentioning, include comparison table with numericals?	<ol style="list-style-type: none">Showing the whole length of the graph make the graph look clumsy, but showing the area of interest seems oknot much article on the same method available, the available one was used
Optional/General comments	<ol style="list-style-type: none">Overall English grammar may be improved	

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)	