



SDI Review Form 1.6

Journal Name:	Current Journal of Applied Science and Technology
Manuscript Number:	Ms_CJAST_67962
Title of the Manuscript:	Evaluation of Shielding effectiveness of Tellurite glass with composition $85\text{TeO}_2\text{5Nb}_2\text{O}_5\text{-5ZnO-5Ag}_2\text{O}$ for diagnostic radiology application
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/journal/10/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	<p>I am advising the authors to carry out few more physical properties such as oxygen packing density, average Te-Te distance $\langle d_{Te-Te} \rangle$, ion concentration (N) of Te, inter nuclear distance (ri) and polaron radius (rp) since authors stated that "Shielding and physical properties of a tellurite glass sample contain host metal oxides (85TeO₂-5Nb₂O₅-5ZnO-5Ag₂O) were evaluated at photon energies range between 15keV and 1MeV" statement in conclusion part.</p> <p>I am also requesting the authors to provide one XRD graph or T_g graph (DSC or DTA) for confirmation of prepared glass sample is having glassy nature.</p> <p>In page no 8, the statement of "The prepared sample recorded comparable values with the commercially available shielding, which consistent with previous findings for linear attenuation coefficient" should berewrite. As of now, sentences fail to convey the meaning for which those are written.</p> <p>Please add the related References as follows:</p> <ol style="list-style-type: none"> 1. B. Srinivas, R. Vijaya kumar, Abdul Hameed, G. Ramadevudu, M. Narasimha Chary, Md Shareefuddin, Experimental and theoretical electron paramagnetic resonance and optical studies of Cu²⁺ spin probe in BaO-TeO₂-Bi₂O₃-B₂O₃ glass system, Optik 156 (2018) 289–296 2. B. Srinivas, B. Srikantha Chary , Abdul Hameed , M. Narasimha Chary , Md. Shareefuddin, Influence of BaO on spectral studies of Cr₂O₃ doped titanium-boro-tellurite glasses, Optical Materials 109 (2020) 110329 	
Minor REVISION comments	Authors are advised to check the complete text, as of now there are few superscripts and subscripts are missing.	
Optional/General 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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