



SDI Review Form 1.6

Journal Name:	<u>British Journal of Applied Science & Technology</u>
Manuscript Number:	2014_BJAST_9433
Title of the Manuscript:	DESIGN AND CONSTRUCTION OF A CABINET SOLAR DRIER
Type of the 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>)



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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)
<u>Compulsory</u> REVISION comments	Differentiate between oven and drier. Open sun drying is carried out on paper or cloth. Open sun drying on aluminium plate painted black is not carried out. It can be fourth option for drying. Material used has not presented properly. There is not much difference in results between drier with reflector and without reflector. It may be due to wrong fitting of reflector. This drier cannot be used for commercial basis. The drier of larger size will have number of trays. The movement of hot air will be upward. The reflector has been placed at the top of drier. The air movement will not be smooth and products will not be dried properly. It cannot be used as oven but not for cooking. The cooking cannot be carried at a temperature of 72°C	The dryer is the whole design, while the oven is the inside compartment of the dryer where samples are loaded into. We agree with you that open air – drying is carried out on paper or cloth. But we decided to use the aluminium plate painted black as the control experiment so that it could be seen that the enclosure inside a box could make a difference both in the temperature and the power output. You notice that the highest temperature ever recorded on the hottest day in Abraka was 40°C, while in the control experiment 45°C was the highest temperature. This means that the black painting could make a little difference. The movement of hot air is upward. That was why a vent was constructed to allow moisture to escape from the oven at intervals. This is only a prototype design. A prototype is a trial design from which subsequent improvements could be made according to defects. This may not be used for commercial purpose as it is now, but it could be massively improved upon for that purpose. This solar cabinet dryer could be used for drying and cooking. We want to say that food could be cooked at 79°C. It will only take a longer time.
<u>Minor</u> REVISION comments	The calculation part may be deleted.	We have deleted them accordingly.
<u>Optional/General</u> comments		