



SDI Review Form 1.6

Journal Name:	Current Journal of Applied Science and Technology
Manuscript Number:	Ms_CJAST_45910
Title of the Manuscript:	THERMAL PERFORMANCE OF SETCREACEA PURPUREA AND PORTULACA GRANDIFORA AS A GREEN ROOF MATERIAL APPLIED IN A TROPICAL CLIMATE
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)
Compulsory REVISION comments	Why this roof slopes? Is it following any local pattern? The choice of the plants was explained in relation to their resistance. But are they common plants to be used in the region for green roof? Table 5 shows thermal comfort zones – According to which comfort index? The authors were quoted in the discussions, but not the index. By the way, there is no item 16 in the references. It was written - The characteristics of succulents (<i>Setcresea purpurea</i>)” However <i>Portulaca Grandiflora</i> is also a succulent plant, isn't it? I couldn't understand why there were nine experimental test cells. Could you explain each one better?	This is due to the nature of heavy rains in Ghana. Steeper slopes are required to remedy the situation. Yes. They are common plants that can withstand drought and their means of propagation are easy. Please note that the index used was based on ASHRAE, E. ASHRAE/IESNA 90.1 Standard-2007. Correction is made in the main manuscript. Yes, both are succulent but <i>Setcresea purpurea</i> due to its genetic make-up makes it perform better in terms of temperature reduction. In basic biometry, the principles of randomization and replication need to be met, hence nine cells were made to avoid confounding of results and biasedness.
Minor REVISION comments	The fonts (size/type) used in the pictures should be standardized The wood to contain the vegetation (called 12mm Plywood facial un section r-r) should be pointed in the Roof plan. What is the measure unit of the floor plan? There should be measures in the Roof plan. Revise – This explains why <i>Setcresea purpurea</i> is able to reduce temperature than <i>Portulaca grandiflora</i> (Table 2) because of its broad and thicker leaves, waxy nature of leaves and water storing tissues in the plant.	Corrections are made in the manuscript. Corrections are made in the manuscript. Corrections are made in the manuscript.
Optional/General comments	The topic is interesting and very relevant	

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)	