



SDI Review Form 1.6

PART 1:

Journal Name:	<u>British Journal of Applied Science & Technology</u>
Manuscript Number:	2013_BJAST_4567
Title of the Manuscript:	Effect of Blanching and Osmotic Pre-treatment on Drying Kinetics, Shrinkage and Rehydration of Chayote (<i>Sechium edule</i>) during Convective Drying
Type of the Article	Research paper

General guideline for Peer Review process is available in this link:

(<http://www.sciencedomain.org/page.php?id=sdi-general-editorial-policy#Peer-Review-Guideline>)

- This form has total 7 parts. Kindly note that you should use all the parts of this review form.



SDI Review Form 1.6

PART 2: 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 writing skill needs to be improved. Pass through the text and check it for possible necessary modifications. ✓ Add a figure of Chayote and slices to the manuscript. ✓ The equation 4 doesn't exist. Modify the equations numbers. 5 to 4, 6 to 5 and ✓ Some of the coefficients are explained through the text and some others in Nomenclature. Explain all either in text or in Nomenclature. ✓ In Fig.1 only data points are shown. Show the curves of the fitted models or at least the best model to show how the model fits to the experimental data points. ✓ In Fig.3, The line doesn't make any sense. The line must be a outcome of a model. Only show the data points. ✓ Some more modifications: ✓ The following modifications in the text are suggested: ✓ Line 80-82: add the reference. ✓ Line 90: What is the reason for selection of 65°C for drying temperature? ✓ Line 95: "until constant weight loss", This is not true because it happens at constant drying rate. Authors would change it to "until the weight was constant" which means equilibrium moisture content (Me). ✓ Lines 102-103: The unit is for all (Mt, M₀ and Me), so move it to the end of the sentence. ✓ Line 177: Change "Handerson" to Henderson". ✓ Line 222: Change "2010" to "(2010)". The same in lines	A figure of chayote and slices included in methodology Equations re-numbered to capture "equation 4" All coefficients explained in "Nomenclature" "Figure 1" curve shown instead of points. Fitted curves for best models included "Figure 3" edited to show only the data points Line 90: 65 C was selected based on result from trials which showed that drying at temperatures greater than 65 results in a dried product that shrinks extensively and has darker color. Loss of vitamins and other nutrients are also minimal at lower temperatures. Line 95: modified to read "until the weight was constant" Lines 102-103: coefficients and units moved to "Nomenclature" Line 177: "Handerson" changed into "Henderson" Line 222:



SDI Review Form 1.6

	227, 232 and 236. ✓ Line 240: “Henderson Pabis” to “Henderson and Pabis”. ✓ Line 482: the caption is not self explanatory. At least add the name of the crop and drying temperature. The same for Fig. 2 and Fig. 3. ✓ Fig. 1 and Fig. 3: Move the legends into the graph. ✓ Fig.2: in vertical axes: delete the word “Percentage”. ✓	Line 240: “Henderson Pabis” changed into “Henderson and Pabis” Line 482: caption modified to include name of the crop Fig 1 and 3: Legends moved into the graph Fig 2: “percentage” deleted axis
<u>Minor</u> REVISION comments	Suggested modifications. ➤ Replace “χ^2” instead of “X²” for Chi square.(in Whole test) ➤ Line 74: Replications of the test for initial moisture content is not mentioned. ➤ Line 81: Is that distilled water or? ➤ Line 82: “excess water drained”, How, using tissues or? ➤ Line 83: Which kind of salt? You have written something about NaCl in Line 210. You should mention it here. ➤ Line 84: No need the decimals when you want give the room temperature, “about 28°C” is enough because the temperature of a room is changing time to time and location to location. The same in lines 144 and 492. ➤ Lines 116, 117: keep “Exp-Pre” for both equations. Of course the outcome will be the same. But it’s better to be unique. ➤ Line 132: replace “raw” with “fresh”	“X²” replaced with “χ^2” Line 74: replication for moisture content determination stated and standard deviation indicated against mean moisture content Line 81: “Distilled water” specified Line 82: sentence modified to read “.....excess water was blotted with tissue paper before drying” Line 83: kind of salt (NaCl) specified. Line 84, 144, 192 : room temperature stated as 28 °C. Line 132: “fresh” replaced with “raw”
<u>Optional/General</u> comments		