



SDI FINAL EVALUATION FORM 1.1

PART 1:

Journal Name:	British Journal of Applied Science & Technology
Manuscript Number:	2014_BJAST_10593
Title of the Manuscript:	Fabrication of Energy Efficient Improvised Incubator

PART 2:

FINAL EVALUATOR'S comments on revised paper (if any)	Authors' response to final evaluator's comments
There was improvement on the revised version of the manuscript. However, the authors kept some mistakes in this second version. 1) It is necessary to put a single space between the number and the unit (see lines 27, 37, 116, 171, Table 4). 2) According to the SI, the authors are not allowed to use "deg C" (Figures 4 and 5). It is necessary to use °C). 3) I had asked "Heaters and compressors in both incubators require the same quantity of energy?" I received no answer about to this question. 4) Do not use 20 °C ± 1 °C. Please, re-write as (20±0.1) °C. 5) The authors talk about temperature accuracy range of ±1 °C (line 46), ± 0.5 °C (line 94), and ±0.1 °C (line 109). Which accuracy range is correct? The accuracy should be ±0.1 °C as described by Standard Methods. 6) I had discussed about the adopted term "improvised" - "According to an English dictionary, the term "improvised" means "to invent, compose, or perform with little or no preparation". Maybe the authors could use the term "homemade" that also means "simply made". The present paper demonstrates the usage of ordinary (simple) materials that can be bought easily. However, there is a serious preparation, an electronic technique behind the incubator construction, and it was not constructed with improvisation". However, the authors did not bring proper discussion about it. Please, change the term improvised by <i>simple made</i> or <i>homemade</i>.	1) These mistakes have been corrected in this revision. 2) This mistake has been corrected in this revision. 3) The power rating of the heater of designed incubator is 200 Watts and that of the conventional incubator is 300 Watts. The compressors of both the incubators are of same power rating. 4) The temperature range has been corrected according to the prescribed range approved by Standard Methods Committee, 2001 and also quoted by Metcalf (as per the Ref No.2). 5) The temperature range mentioned in line 46 refers to the standard prescribed limit of temperature variation for incubation process of BOD testing. Line 94 refers to the accuracy of the present design of the incubator whereas line 109 refers to the possible improvement that can be achieved by continuous tuning of the gains of the PID controller. 6) The title of the paper has been changed to " Fabrication of energy efficient incubator" by dropping the word "improvised".