



SDI FINAL EVALUATION FORM 1.1

PART 1:

Journal Name:	British Journal of Applied Science & Technology
Manuscript Number:	2013_BJAST_3695
Title of the Manuscript:	Kinetic, Isothermal, and Thermodynamic Studies of the Biosorption of Methylene Blue from Synthetic Wastewater using Cow Hooves

PART 2:

FINAL EVALUATOR'S comments on revised paper (if any)	Authors' response to final evaluator's comments
[1] Figure 1, location of similar peak about a and b is not consistent with value of level-axis. In other words, figure b is shifted to right. Please re-organize. [2] Section 3.2, “the surface of the adsorbent has a charge of zero thereby bringing about insignificant adsorption at this region”. This expression is not right. The point of zero charge for CH was determined to be pH 7.7. From figure 2, at pH 7, there is higher removal efficiency. Even at pH 2.0, the removal of efficiency is up 40%. So “insignificant adsorption” is not appropriate. [3] Table 2, qm of cow hoof was not appropriate as value of R2 from Langmuir model is too lower. [4] Section 3.8, about K_L, I think the unit of K_L should be change to L/mol and then was selected to calculate the change of free energy. So value of ΔG^0 is negative. Please re-calculate and organize.	The figure has been adjusted. Thank you for this important observation (pg. 5 ,figure 1 line 130-131) All we were saying by insignificant adsorption is that there was no appreciable increase in the amount of dye adsorbed at this region (between pH 6 and 8). We didn't mean adsorption was zero at this region but we have reconstructed this statement for clarity (pg. 5 line 153). The table compares the Langmuir qm for different low-cost adsorbent not the qm for isotherm that fitted the process best Thank you