



SDI Review Form 1.6

Journal Name:	British Journal of Applied Science & Technology
Manuscript Number:	2013_BJAST_6767
Title of the Manuscript:	Antioxidative Response of <i>Hydrilla verticillata</i> (L.f.) Royle under Short Term Exposure to Mercuric Chloride
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)
Compulsory REVISION comments	The focus of this study is to provide information about the response of <i>Hydrilla verticillata</i> in a short term exposure to different doses of mercuric chloride. Moreover, the effect of ascorbate in the restoration of chlorophyll loss were evaluated. Overall, the experimental methods seem sound, with some interesting results, but in some places the methods are too shallow and do not provide adequate details to evaluate the work. Major revision: 1) It is unclear from the text how much (gr, mg, etc.) tissue was used for the extraction and estimation of total chlorophyll contents, soluble proteins, ascorbic acid and MDA. Moreover for extracts preparation and the assay of enzyme activities there is not indication, in the paper, about the quantity of tissue used per volume of buffer. 2) In the Results section (rows 162-166) Authors stated that the addition of ascorbate in the medium allows a recover in the chlorophyll contents but the numbers reported in table 1 say that with 1mM	



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	ascorbate there was a drop in chlorophyll content. 3) Check whether the sentence “<i>Hydrilla verticillata</i> twigs” (row 166) is in the right position.	
Minor REVISION comments	1) Row 173 check the value reported and the text alignment. 2) Figs. 2, 3, 4. Please, explain the meaning of the double and triple letter above the bars. 3) Discussion. Maybe the recent work by Michelet L. et al. (Down-regulation of catalase activity allows transient accumulation of a hydrogen peroxide signal in <i>Chlamydomonas reinhardtii</i>.” Plant, Cell and Environment (2013) 36, 1204–1213) could be useful to explain light effects on catalase activity. 4) Possibly, to measure the enzymatic activities after the treatment with ascorbate would make the work more complete.	
Optional/General comments	This manuscript is understandable but English grammar and word usage need attention before it can be published.	

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