



SDI Review Form 1.6

Journal Name:	Asian Journal of Research in Crop Science
Manuscript Number:	Ms_AJRCS_43691
Title of the Manuscript:	Effects of Lead on Different Seedling Growth Attributes of Cow Pea (<i>Vigna unguiculata</i>)
Type of the Article	Original Research

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		
Minor REVISION comments	Throughout manuscript maintain numerical values like 1 2 3 4....., otherwise one two, three....etc. Please check 5 ml in 46 th line and five ml in 50 th line.	Corrected and marked with yellow font colour in text.
Optional/General comments	Author is proved that lead (Pb) is toxic to plant by mean calculating the physiological parameters. But, authors not given the reason behind the toxicity and possible mechanism, Throughout the manuscript Language, grammar, presentation and statistical representation were good.	The reason behind the toxicity and possible mechanism explained in text and marked with yellow font. Heavy metals at higher concentrations are toxic to plant growth [26] by modifying metabolic processes, oxidative stress in plants [27] and excessive accumulation in plant tissue may disturb the physiological processes such as inhibition of root growth recorded in <i>Vigna mungo</i> (L.) [28]. Konate, A., He, X., Rui, Y. and Zhang, Z. 2017. Magnetite (Fe ₃ O ₄) nanoparticle alleviate growth inhibition and oxidative stress caused by heavy metals in young seedlings of cucumber (<i>Cucumis sativus</i> L.). <i>ITM Web Conferences</i> , 12, 03034. 1-10. Bharwana, S.A., Ali, S., Farooq, M.A., Iqbal, N., Abbas, F. and Ahmed, MSA. 2013. Alleviation of lead toxicity by Silicon is related to elevated photosynthesis, antioxidant enzymes suppressed lead uptake and oxidative stress in cotton. <i>J Bioremed Biodeg</i> 4:187. doi: 10.4172/2155-6199.100018. Hussain, K., Sahadevan, K.K. and Salim, N. 2010. Bioaccumulation and release of mercury in <i>Vigna mungo</i> (L.) Hepper seedlings. <i>Journal of Stress Physiology & Biochemistry</i> , 6(3): 56-63.



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PART 2:

	Reviewer's comment	Author's comment <i>(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)</i>
Are there ethical issues in this manuscript?	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	