



SDI Review Form 1.6

Journal Name:	Archives of Current Research International
Manuscript Number:	Ms_ACRI_41974
Title of the Manuscript:	DOUBLE RING INFILTROMETER FOR MEASURING SOIL INFILTRATION RATE
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	1- The objective of the paper is not achieved. “This work assesses the performance of a locally fabricated double-ring infiltrometer for infiltration rate measurement using selected locations within the Ekiti State University, Nigeria.” The assessment can be done by comparing the experimental results with findings of other researches, if any. 2- Lines 115-118: “The values a, α and b” $Y = 0.97t^{1.22} - 2.90$ $Y = 0.25t^{1.22} - 2.00$ How these values are determined? These 2 equations are not correct with respect to values of tables 7 and 8. 3- Lines 131 and 138: Average infiltration rates in tables 11 and 12 are calculated in a wrong manner. Average infiltration rate = Depth of water infiltrated (mm) / Total time (hr) For table 11: The values will be 52.8, 46.8, ... and so on. 4- Lines 134 and 141: Figures 14 and 15 are to be modified to draw correctly the average infiltration rates. 5- Accumulated infiltration rates are the most important for irrigation purposes. Draw these curves for the 2 locations, and then equations can be obtained <u>to detect the accumulated infiltration at any required time.</u> 6- It will be great if the obtained curves are compared with findings of other researches, if any. 7- Only 6 references are stated within the paper. Why there are 32 references in the Ref. Item? Also, most references are old. 8- Do the experiments allow finding the values of “basic infiltration rates”? Ref.: http://www.fao.org/docrep/S8684E/s8684e0a.htm	There are different soil characteristics, hence the results particular to the type of soil examined. $Y = 0.97t^{1.22} - 2.90$ $Y = 0.25t^{1.22} - 2.00$ The above values were obtained using the values in table 7 and 8. The procedures are lengthy and only contained in the appendix page of the thesis
Minor REVISION comments	1- Tables and figures have to be numbered correctly. 2- Revision for language and grammar.	
Optional/General comments	---	