Review Form 3

Journal Name:	**Journal of Applied Life Sciences International**
Manuscript Number:	**Ms_JALSI_121780**
Title of the Manuscript:	**Plasmid Profiles of Antibiotic Resistant Bacteria Associated with Biofilms from Ground Water Sources in Ado-Ekiti, Ekiti State, Nigeria**
Type of the Article	**Original Research Article**

General guidelines for the 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.
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PART 1: Review Comments

Compulsory REVISION comments	**Reviewer's comment**	**Author's Feedback** *(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)*
Please write a few sentences regarding the importance of this manuscript for the scientific community. Why do you like (or dislike) this manuscript? A minimum of 3-4 sentences may be required for this part.		
Is the title of the article suitable? (If not please suggest an alternative title)		
Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here.		
Are subsections and structure of the manuscript appropriate?		
Please write a few sentences regarding the scientific correctness of this manuscript. Why do you think that this manuscript is scientifically robust and technically sound? A minimum of 3-4 sentences may be required for this part.		
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form. -		

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Minor REVISION comments **Is the language/English quality of the article suitable for scholarly communications?**		
Optional/General comments	• Give more explanation about the indexes of the bacterial isolates were calculated. • How the plasmid profiles of the bacterial isolates were also determined? • In conclusion section in the abstract part, there is a quote bracket in line 2 needs to be removed. • In the introduction section, mention and go over a few of the health risks that people face as a result of microbial biofilms present in drinking water sources. • What was the temperature and atmosphere like when transporting and storing the samples that were collected in the laboratory before the start of the experiments? Before beginning the actual experiment, did you concern the impact of temperature on the activity of the bacteria during sample collection and storage? • Justify the necessity of waiting three weeks for the biofilm to grow before beginning the isolation process experiment, given that you previously stated that numerous prior studies had already demonstrated the presence of biofilm in the water. Why didn't you begin the experiment right away after gathering the samples, or at least not until the following day, to ensure that the concentration of bacteria at time zero corresponded to the original concentration of bacteria you had from the location? • You mentioned that "The bacteria from the biofilms of water samples were isolated at the third week of storage when the total bacteria count became significant (above 40)", why specifically most be above 40? How you were capable to identify that three week is the exact time for reaching this value? • Can you add a chemical reaction describe what you explain in section 2.7 Plasmid curing of the resistant isolates? • It is advised that you include the chemical names and/or chemical formulas for the growing media used to support the bacteria in your manuscript. • May you rephrase the following sentence "This may due to the fact that Strept. faecalis and E. coli are the major indicator organisms and they have the ability to inhabit any part of the environment most especially water" in the manuscript? • Since you already mentioned the values of the total mean total bacterial count for both borehole's and wall's water (11.1 ×104 cfu/ml and 7.8 ×104 cfu/ml) respectively in table 1, then there is no need to mention them again inside the manuscript, instead refer to the fact that borehole's water illustrates the highest value of the mean total bacterial count and just refer to the table 1, then discuss the justification. • In the manuscript you mentioned that zinnacef as Z, amoxicillin as AM, also you mentioned that ampiclox as AM, do you mean ampiclox as APX ? if yes, then change the abbreviations for amplicon in the manuscript. • Are PEF, SXT, CH, and AU are the abbreviations of the pefloxacin, septrin, chloramphenicol and augumentin ? if yes then add them to the manuscript. Examine the figure 4 caption; the zinnacef 20 µg abbreviation Z is written in a single line. organize it out. • Why did you not list the source of the water sample (wall and borehole) for each ratio in Figure 4 (the Gram positive case) as you did in Figure 5? Additionally, why is the information illustrated differently in Figure 4 than in Figure 5, where in Figure 4 you used the X-axis to indicate the antibiotics, whereas in Chapter 5, you used the X-axis to indicate different bacteria for each sample source (well, borehole). It would be better to unite the two figures for one same X-axis style, and I would prefer it if you changed Figure 4's X-axis style to be more similar to Figure 5's. • Fix the space between "with high" in the sentence "who isolated bacteria with high MAR indexes from drinking water" in your manuscript, check the rest of the manuscript for the space and grammars issues. • If at all possible, include two tables—one for Gram positive bacteria and the other for Gram negative bacteria—below Figure 5. These tables should indicate for each antibiotic, which bacteria specifically exhibited the highest reflectance ratio, along with the highest resistance ratio value and the sample's source (wall or borehole).	

	Antibiotic Bacteria that showed highest resistance ratio The resistance ratio value% Sample source • Try to add more modern studies (2020-2024) to the references, most of them are old. You can use " The Effects of Operating Variables on Efficiency of Water Disinfection by Sodium Hypochlorite Using Al-Wathba Wastewater " as an example.	

PART 2:

	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)*
Are there ethical issues in this manuscript?	*(If yes, Kindly please write down the ethical issues here in details)*	

Reviewer Details:

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