

Review Form 3

Journal Name:	International Journal of Environment and Climate Change
Manuscript Number:	Ms_IJECC_124939
Title of the Manuscript:	A Review of Plastic Threat to Environment
Type of the Article	Review Article

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PART 1: Review Comments

Compulsory REVISION comments	Reviewer's comment	Author's Feedback <i>(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i>
<p>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.</p>	<p>The manuscript addresses plastic pollution as a global environmental concern. It provides a comprehensive overview of the impacts of plastics on soil, water bodies, the atmosphere, and ecosystems. The review also highlights the consequences for human health, the environment, and the economy, with a particular focus on the context of Bangladesh. Although there are similar studies (such as https://doi.org/10.1016/j.cscee.2021.100142; https://doi.org/10.1007/s41742-023-00507-z; https://doi.org/10.1029/2018JC014719; and https://doi.org/10.4491/eer.2020.535), this study is relevant due to the growing urgency to address plastic pollution and may encourage stricter environmental policies and further research in this area. However, a more in-depth discussion of the solutions presented would be beneficial to further enhance its impact.</p>	
<p>Is the title of the article suitable?</p>	<p>The current title, "A Review of Plastic Threat to Environment," is clear and adequately describes the content of the article.</p>	
<p>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.</p>	<p>The abstract covers the main points of the article, mentioning the global issue of plastics, their consequences for ecosystems and human health, and the focus on the context of Bangladesh. However, it could include more details about the key conclusions and possible solutions discussed in the article.</p>	
<p>Are subsections and structure of the manuscript appropriate?</p>	<p>The structure of the manuscript is well-organized and follows a logical flow. The subsections cover aspects of plastic pollution, from its sources to its effects on soil, water, air, and public health. However, the section on solutions or recommendations could be expanded to place more emphasis on practical approaches.</p>	
<p>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.</p>	<p>The manuscript is scientifically robust and provides a good compilation of data and studies on the impact of plastics on the environment. However, some aspects need to be revised:</p> <ul style="list-style-type: none"> - In the introduction, the authors did not clearly present the research gap, i.e., the theoretical or practical gap this study aims to fill. Although the topic of plastic pollution is relevant and timely, it is essential that the authors better explain the rationale for the study, demonstrating what this work contributes in terms of novelty and how it can add value to both theoretical and practical fields. I would recommend that the authors include a more detailed discussion of what differentiates this study from previous reviews and its specific contribution in terms of theoretical advances and practical implications for public policies or waste management initiatives. - It was observed that most of the tables and figures used in the manuscript come from external sources; however, these sources were not properly referenced. I strongly recommend that the authors include appropriate citations for all figures and tables not created by the authors themselves, in accordance with scientific citation standards. - Although the manuscript presents a significant amount of data, I found the analysis of these data to be lacking in detail and synthesis. It would be useful to include a section that provides a clear synthesis of the data, possibly organized in a table or chart. This would help to highlight the main conclusions in a more accessible manner and provide a clearer view of the trends and implications discussed in the article. - The conclusions do not clearly highlight the importance of the study or its main contributions. I recommend that the authors revise this section to include the study's specific contributions to the theoretical and practical fields, as well as its relevance for the development of public policies. Additionally, it would be useful to include suggestions for future research, identifying gaps that still need to be explored. 	

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<p>Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.</p>	<p>The references are sufficient and encompass recent and relevant sources for the topic discussed. Nearly 50% (specifically, 49.09% of the references) are from the past 5 years (after 2019). However, some references are over 10 years old and could be updated with more recent research, in addition to including studies on innovations in plastic waste management and emerging technologies for reducing microplastics. The previously mentioned articles, similar to this study, could also complement the literature review.</p>	
<p><u>Minor REVISION</u> comments</p> <p>Is the language/English quality of the article suitable for scholarly communications?</p>	<p>Although the English in the manuscript is generally adequate, it is important to revise some specific errors that appear in the text:</p> <ul style="list-style-type: none"> - In the first paragraph of the introduction, the term "thatstudy" is written together, which is a typographical error. - In the second paragraph of the introduction, the sentence "Although Bangladesh, a rapidly developing country having a vast population of 166 million, has satisfactory economic growth including over three thousand small and big plastic industries at present and Bangladesh has been recognized as the 12th highest export earning sector in the fiscal year 2017-18" is confusingly structured. I suggest that the authors restructure this sentence to improve clarity. - In section 3, the sentence "The intensifying Over the past 50 years, the plastics sector has grown" contains a misplacement of the word "intensifying," which is out of context and does not connect properly with the rest of the sentence. 	
<p><u>Optional/General</u> comments</p>	<p>Finally, I would like to suggest a few additional improvements:</p> <ul style="list-style-type: none"> • Some figures in the manuscript are of low resolution, which hinders the proper visualization of the information. For example, Figure 3 has low resolution. I recommend that the figures be replaced with versions of at least 300 dpi to ensure clarity and visual quality for publication. • The manuscript makes several references to microplastics throughout the text, but they are only defined in section 4.4. I recommend that the authors include a clear and concise definition of microplastics the first time the term is mentioned, to improve readers' understanding from the beginning. • The reference (Pinto et al., 1999), cited in section 4.3, is not formatted according to the journal's standards. • Some figures and tables, such as Figures 3, 4, 5, and 6, are presented in the manuscript without being previously mentioned in the text. I recommend that the authors cite all Figures and Tables before they are presented, so readers know where they fit into the discussion flow. • The title of Figure 5 does not correspond to the content presented. I suggest that the authors revise and correct the title to ensure it accurately describes the information presented in the Figure. 	

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

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