

**Review Form 1.7**

Journal Name:	<b>Asian Journal of Geological Research</b>
Manuscript Number:	<b>Ms_AJGER_113848</b>
Title of the Manuscript:	<b>NAVIGATING AIR QUALITY ASSESSMENT: A HOLISTIC REVIEW OF AIR QUALITY INDEX METRICS AND ASSESSMENT APPROACHES</b>
Type of the Article	<b>Review Article</b>

## Review Form 1.7

### 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)
<p><b>Compulsory</b> REVISION comments</p> <ol style="list-style-type: none"> <li>1. <b>Is the manuscript important for scientific community?</b> (Please write few sentences on this manuscript)</li> <li>2. <b>Is the title of the article suitable?</b> (If not please suggest an alternative title)</li> <li>3. <b>Is the abstract of the article comprehensive?</b></li> <li>4. <b>Are subsections and structure of the manuscript appropriate?</b></li> <li>5. <b>Do you think the manuscript is scientifically correct?</b></li> <li>6. <b>Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form.</b></li> </ol> <p><b><u>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</u></b></p>	<ol style="list-style-type: none"> <li>1. <b>Yes, due to the following reasons:</b> <ul style="list-style-type: none"> <li>• Relevance to Current Issues: Air quality is a critical concern globally due to its impact on human health and the environment. With increasing urbanization and industrialization, understanding and effectively assessing air quality have become paramount. The manuscript's focus on reviewing air quality index metrics and assessment approaches directly addresses this pertinent issue.</li> <li>• Scope and Depth of Review: The manuscript promises to provide a comprehensive overview of various air quality index metrics and assessment methodologies. Such a holistic review is crucial for researchers, policymakers, and practitioners involved in environmental science, public health, and urban planning. It can serve as a valuable resource for understanding the complexities involved in assessing air quality and navigating through different metrics and approaches.</li> <li>• Potential Impact on Research and Practice: By synthesizing existing knowledge on air quality assessment, the manuscript has the potential to significantly impact both research and practice in the field. It can guide future research directions by identifying gaps in current methodologies or suggesting improvements in existing approaches. Moreover, policymakers and environmental agencies can benefit from the insights provided to develop more effective strategies for air quality management and regulation.</li> <li>• Contribution to Scientific Literature: The manuscript's contribution to the scientific literature lies in its comprehensive and systematic review of air quality assessment metrics and approaches. It consolidates scattered information from various sources into a single coherent document, making it accessible to a wide audience. Additionally, it may stimulate further research by highlighting areas that warrant more in-depth investigation or methodological refinement.</li> </ul> </li> <li>2. <b>yes</b></li> <li>3. <b>yes</b></li> <li>4. <b>yes</b></li> <li>5. <b>No, Because</b> <ul style="list-style-type: none"> <li>• The absence of essential particulars concerning the materials and procedures employed in the manuscript, as well as the sequential actions pursued to obtain the outcomes or discoveries, becomes apparent. Consequently, the comprehension of how the research was carried out could be impeded for readers who might doubt the legitimacy or dependability of the findings expounded in the manuscript. In order to ensure that the manuscript satisfies the requisite criteria, it is imperative to address this concern by providing an elaborate account of the materials and methods employed, as well as the steps undertaken to arrive at the conclusions presented. This may encompass details pertaining to the size of the sample, selection criteria, methods of data collection, statistical analysis, and any other pertinent particulars that could facilitate readers' comprehension of the research process. By doing so, the manuscript will acquire greater transparency, credibility, and value within the scientific community. <b>Therefore the author should indicate the number of article included and excluded in the review process.</b></li> </ul> </li> <li>6. <b>yes</b></li> </ol>	
<p><b>Minor</b> REVISION comments</p> <ol style="list-style-type: none"> <li>1. <b>Is language/English quality of the article suitable for scholarly communications?</b></li> </ol>	<ul style="list-style-type: none"> <li>• Certain language-related issues in the texts require further investigation. One significant point is the intelligibility of the language used in the manuscripts, which is not always simple to understand. To improve the readability of the manuscripts, the author must address a few critical areas. The author must specifically avoid repetition and keep the wording brief.</li> </ul>	

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	<p>Furthermore, the author must ensure that one line flows into the next seamlessly. Furthermore, the author must pay attention to the language of the material and suggest improved wording when necessary. By resolving these issues, the author can make the texts more accessible to readers.</p> <ul style="list-style-type: none"> <li>○ Readability suggestions covers issues like conciseness, redundancy, transition and flow, and suggests improved phrasing.</li> </ul>	
<b>Optional/General</b> comments	<p>Please use this for material and methods section in the manuscript Writing a review article typically involves several key steps and methods to ensure a comprehensive and well-structured piece of work. Here are some common methods used in writing review articles:</p> <ol style="list-style-type: none"> <li>1. <b>Literature Search:</b> Conduct a thorough search of the existing literature using academic databases, libraries, and online resources to gather relevant articles and studies on the topic of interest.</li> <li>2. <b>Selection Criteria:</b> Establish criteria for selecting articles to include in the review. This might involve focusing on recent publications, peer-reviewed sources, or articles that meet specific quality standards.</li> <li>3. <b>Critical Analysis:</b> Analyze and evaluate the selected literature critically. Identify key themes, methodologies, findings, and gaps in the existing research. Compare and contrast different studies to highlight inconsistencies or areas of consensus.</li> <li>4. <b>Synthesis:</b> Synthesize the findings from the literature into a coherent narrative. Organize the information in a logical manner, such as by theme, chronology, or methodology, to provide a clear overview of the topic.</li> <li>5. <b>Framework Development:</b> Develop a conceptual framework or theoretical framework if applicable, to guide the organization and analysis of the review. This framework can help structure the discussion and provide a theoretical lens through which to interpret the findings.</li> <li>6. <b>Writing and Formatting:</b> Write the review article according to the conventions of academic writing, including a clear introduction, literature review section, discussion of findings, and conclusion.</li> </ol>	

### 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?	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

### Reviewer Details:

Name:	Getahun Mekuria Abera
Department, University & Country	Debre Berhan University, Ethiopia