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| Book Name: | [Research Advances in Environment, Geography and Earth Science](https://www.bookpi.org/bookstore/product/research-advances-in-environment-geography-and-earth-science-vol-1/) |
| Manuscript Number: | **Ms\_BPR\_2912** |
| Title of the Manuscript:  | **Prediction of sediment quality based on the concentration of heavy metals Cu, Zn, and Ni in Jakarta Bay using the index analysis approach** |
| Type of the Article | **Book chapter** |

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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.** | The manuscript is important for scientific communities, because it informs and provides data on the sediment qualities which can affects surface water qualities and sediment dwelling aquatic life. Furthermore, such kind of study is important for national and local decision and policy makers to take appropriate measures that can mitigate sediment pollution to safeguard the environment and public health at large. |  |
| **Is the title of the article suitable?****(If not please suggest an alternative title)** | In the title the word, ” prediction” may needs consideration, because prediction implies some kind of subjective and largely based on some kind of modelling. But, in the study actual field measurement was undertaken and objective, rather than subjective. I suggest it should be replaced by the word “ evaluation or | determination” etc. |  |
| 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. | The abstract encompasses purpose of study, methods, results and implications. However, it lacks conclusion and recommendation or suggestions. |  |
| **Are subsections and structure of the manuscript appropriate?** | Yes,  |  |
| **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.** | The manuscript prepared following the scientific writing style and all the structures of the articles are well incorporated. The procedures applied in determining heavy metals in the sediment were using scientific methods. The methodologies are robust/ comprehensive and include: average concentration, contamination factor ( CF), Igeo, PLI and RI.  |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.****-** | Yes,  |  |
| Minor REVISION commentsIs the language/English quality of the article suitable for scholarly communications? | I suggest that it will be good, if the English quality is improved so as to increase the readability and understand ability of readers.  |  |
| Optional/General comments | Generally, the manuscript is good. Yet, the following comments are provided to improve the manuscript:1. Include conclusion and suggestions/recommendation in the abstract,
2. Introduction section- describe research gaps what have been not done , and clearly stated 1-3 objectives,
3. materials and method sections-
* replace field work – by “sediment sample collection”
* briefly describe how sample sites were collected, how much sediment sample collected from each sample point,
* sample treatment- briefly describe how sediment samples were screened, dried, ground to powder, sieved, and digested, filtered and AAS calibration, and standardized.
* Write the abbreviation “ PACS-2” when first used in text,
* Map- not visible- increase size,
1. Correlation section, …… stated as , “ …..no correlation between Cu, Zn, Ni ( r 0.781, r 0.490)” correct it. Because correlation exist ( r= 0.781) and r = 0.490) .
2. Results and discussion section-
* table-11 – the data presented in columns are standards, but not average concentration. To make clear comparison of av. concentration and corresponding standards , the data on av. con. must be presented in the table.
* Briefly describe the implication of high value ( CF, Igeo, PLI, RI ) for environment and public health, as well as aquatic life, ,
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| **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)*** |  |

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| **Reviewer Details:** |
| **Name:** | **Deshu Mamo Mekuria** |
| **Department, University & Country** | **Assosa University, Ethiopia** |