|  |  |
| --- | --- |
|  | |
| Journal Name: | [**International Journal of Environment and Climate Change**](https://journalijecc.com/index.php/IJECC) |
| Manuscript Number: | **Ms\_IJECC\_140094** |
| Title of the Manuscript: | **Assessment of Wetland Ecosystem Services using RAWES Approach: A Case Study of Raipur, Chhattisgarh, India** |
| Type of the Article | **Original Research Article** |

|  |  |  |
| --- | --- | --- |
| PART 1: Comments | | |
|  | Reviewer’s comment **Artificial Intelligence (AI) generated or assisted review comments are strictly prohibited during peer review.** | **Author’s Feedback** (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. A minimum of 3-4 sentences may be required for this part.** | 1. The application of the RAWES (Rapid Assessment of Wetland Ecosystem Services) framework to 38 urban wetlands in Raipur provides valuable empirical data on ecosystem service provision in a tropical urban context. 2. The study contributes to the growing body of literature on urban ecosystem services assessment and offers practical insights for sustainable urban planning and wetland conservation strategies. 3. The findings are particularly relevant for policymakers and urban planners in developing countries facing similar urbanization pressures and wetland degradation challenges. |  |
| **Is the title of the article suitable?**  **(If not please suggest an alternative title)** | Yes |  |
| 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 is generally comprehensive and covers the main elements. However, it could be improved by:   * Adding the specific study period (2025) * Including the total number of ecosystem services assessed (37) * Providing more specific quantitative results (e.g., ESI values for key services) * Clarifying the implications for urban planning and policy * Minor language refinement for clarity |  |
| Is the manuscript scientifically, correct? Please write here. | Yes. However, there are some areas that need attention:   * Limited discussion of potential biases in the assessment methodology * Insufficient validation of the RAWES scores * Need for more robust statistical analysis of the ecosystem service index calculations * Limited discussion of uncertainties and limitations |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.** | The references are adequate but could be strengthened. Consider:   1. Dang, K. B., Phan, T. T. H., Nguyen, T. T., Pham, T. P. N., Nguyen, M. H., Dang, V. B., ... & Ngo, V. L. (2022). Economic valuation of wetland ecosystem services in northeastern part of Vietnam. *Knowledge & Management of Aquatic Ecosystems*, (423), 12. 2. Bassi, N., Kumar, M. D., Sharma, A., & Pardha-Saradhi, P. (2014). Status of wetlands in India: A review of extent, ecosystem benefits, threats and management strategies. *Journal of hydrology: Regional studies*, *2*, 1-19. 3. Intergovernmental Panel on Climate Change (IPCC). (2023). Cities, Settlements and Key Infrastructure. In *Climate Change 2022 – Impacts, Adaptation and Vulnerability: Working Group II Contribution to the Sixth Assessment Report of the Intergovernmental Panel on Climate Change* (pp. 907–1040). chapter, Cambridge: Cambridge University Press. 4. Bagstad, K. J., Semmens, D. J., Waage, S., & Winthrop, R. (2013). A comparative assessment of decision-support tools for ecosystem services quantification and valuation. *Ecosystem services*, *5*, 27-39. |  |
| Is the language/English quality of the article suitable for scholarly communications? | needs improvement. Grammatical errors and sentence structure problems. Inconsistent terminology usage. Some unclear expressions and awkward phrasings |  |
| Optional/General comments | Areas for improvement:  Justification:   1. The research addresses an important topic with practical applications 2. The methodology is sound but needs better documentation 3. Results are valuable but presentation needs improvement 4. Language quality requires significant enhancement 5. Statistical analysis could be strengthened 6. Literature review needs updating   Major revision requirements:   1. Comprehensive English language editing 2. Enhanced methodology section with more details 3. Improved statistical analysis and uncertainty discussion 4. Updated literature review with recent references 5. Better quality figures and tables 6. Strengthened discussion section   Minor issues to address:   1. Formatting consistency 2. Reference style standardization 3. Technical terminology consistency 4. Data presentation clarity   Technical Comments  Methodology Concerns   1. Site selection criteria not clearly defined 2. Potential bias in assessor evaluations not addressed 3. No inter-rater reliability assessment mentioned 4. Limited validation of RAWES scoring system   Results Presentation   1. Tables need better formatting and clarity 2. Graphs mentioned but not visible in the submitted version 3. Statistical significance testing not performed 4. Uncertainty bounds not provided for ESI calculations   Discussion Limitations   1. Limited comparison with other urban wetland studies 2. Insufficient discussion of management implications 3. Need more critical analysis of method limitations 4. Missing discussion of seasonal variations in ecosystem services |  |

|  |  |  |
| --- | --- | --- |
| **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:**

**Mohd Bin Mahmud, Malaysia**