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| Book Name: | **Innovative Solutions: A Systematic Approach Towards Sustainable Future** |
| Manuscript Number: | **Ms\_BPR\_3724.42** |
| Title of the Manuscript: | **AN ANALYTICAL SOLUTION OF TRANSPORT OF POLLUTANTS IN UNSATURATED POROUS MEDIA WITH ADSORPTION** |
| Type of the Article | **Complete 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 provides a comprehensive review of groundwater's significance, highlighting the growing challenges posed by contamination and the limitations of traditional remediation techniques like pump-and-treat methods. It emphasizes the innovative application of permeable reactive barriers (PRBs) as a sustainable and effective alternative, offering insights into their principles, reactive materials, and applications for various contaminants.** |  |
| **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. | **Yes** |  |
| **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.** | **Scientifically, the inclusion of a mathematical model employing Laplace transform, moving coordinates, and Duhamel’s theorem adds depth, providing analytical solutions for contaminant transport in subsurface environments.** |  |
| **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? | Yes |  |
| Optional/General comments | 1. More detailed introduction can be added to enhance the quality of the manuscript. 2. 4-5 keywords is normally enough for a manuscript. Too much of keywords is not required. 3. The manuscript does not reflects enough details as described in the abstract as it contains only mathematical equations. So the author is suggested to add more details as reflected in the abstract. 4. The references should be properly cited in the manuscript as well. |  |

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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: | **Hemaprobha Saikia** |
| Department, University & Country | **Bodoland University, India** |