

Review Form 1.6

Journal Name:	Journal of Engineering Research and Reports
Manuscript Number:	Ms_JERR_77487
Title of the Manuscript:	MODELLING OF SOIL PROFILE POLLUTANT YIELD ON SLAUGHTERHOUSE WASTES DEPOSITED LAND.
Type of the Article	Research Article

General guideline for Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound. To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

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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)
Compulsory REVISION comments	<p>In title `environs` doesn't make sense, so write it in full form.</p> <p>Abstract</p> <p>Last sentence `used to verify and validate the finite element developed model`, suggest change it to `used to verify and validate the using finite element analysis` to make is scientifically correct.</p> <p>How the model was validated for the verification, just writing `validated` does not make sense unless whole procedure is explained since this model development article?</p> <p>How authors determine this `time step of 15years`?</p> <p>Rephrase sentence `It was observed however, that there was an increasing tendency to uniformity of concentration with increment in the time step as a result of parameters build-up with time in the soil` as it is hard to comprehend.</p> <p>Introduction</p> <p>Sentence starting with `The disposal of waste` needs suitable references.</p> <p>Authors missed out and important recent report https://doi.org/10.3390/cells10092428 to cite along the sentence starting with `The same wastes however, can be valuable for crops but can also cause water quality impairment`, please cite this report to make reference list up to date.</p> <p>Cite the source of equation 1, i.e. Advective dispersive equation (ADE). Also, cite source of other equations.</p> <p>Materials and methods</p> <p>In section 2.3 NATURE AND SOURCES OF DATA, explain how the different cations/anions in soil samples were analysed?</p> <p>Please provide supplier, catalogue number of chemical used in the study.</p> <p>ADE is twice abbreviated and presented with equation 1 & 2, which is confusing to readers, please correct this and make section less redundant.</p> <p>Authors need to add data collection with details of statistical analysis performed to present standard error and CV as shown in in the model.</p> <p>Results & Discussion</p> <p>Authors need to cite some latest mathematical modelling report https://doi.org/10.1002/aisy.202000084, https://doi.org/10.1021/acsanm.8b01406 & https://doi.org/10.1021/acсами.0c18470 where the variation curve of Lead concentration tends to become uniform and similar trend of curve are explained in last paragraph before conclusions</p> <p>Figure 3: Graphical plot of Zinc concentration at Varying Time Step, why is the 15 years' time point plotted outside the plot frame, please correct.</p> <p>Further, authors needs to discuss the relevel of each treatment to enhance crop yield in scientific paradigm to make DISCUSSION more fruitful.</p> <p>With the assembled global matrix equation of Equation (20), to update reference cite latest reports https://doi.org/10.1021/acssuschemeng.1c02589 & https://doi.org/10.3390/coatings11111273 with the reference 20.`</p> <p>English is major concern and numerous typos (e.g. malodorous), grammatical error and poor sentence construction is noted</p>	

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	<p>throughout the draft.</p> <p>Sentence `It also contains organic solids, trace heavy metals, salts, bacteria, viruses, other microorganisms and sediment` needs a suitable reference and authors are suggested to cite doi: 10.15761/FNN.1000191 to support the statement.</p> <p>Many abbreviation are used without proper explanation (e.g. BOD), please provide a list of all abbreviation after Conclusion section.</p>	
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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?	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

Reviewer Details:

Name:	Ajay vikram singh
Department, University & Country	German federal Institute (BfR), Germany