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| Journal Name: | [**Journal of Engineering Research and Reports**](https://journaljerr.com/index.php/JERR) |
| Manuscript Number: | **Ms\_JERR\_140834** |
| Title of the Manuscript: | **QUAIL (Coturmix coturmix) EGG SHELL AND SNAIL (Cornu asperum) SHELL USED AS ADSORBENTS IN THE TREATMENT OF OIL SPILL CONTAMINATED WATER** |
| Type of the Article |  |

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| **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.** | This manuscript presents a comparative study on the application of quail egg shells (QES) and snail shells (SS) as low-cost, biodegradable adsorbents for crude oil removal from aqueous environments. The valorisation of agro- waste into effective remediation agents is a timely and highly relevant topic within environmental engineering and waste management research. The work contributes to sustainable materials development by promoting circular economy practices and reducing reliance on synthetic petroleum-derived sorbents. Additionally, the study's comprehensive parametric analysis across six operational variables offers useful baseline data for further research and industrial upscaling. | |  | |
| **Is the title of the article suitable?**  **(If not please suggest an alternative title)** | While the current title conveys the materials and application domain, it could be improved for clarity and precision. For example: “Comparative Batch-Adsorption Study of Crude Oil Removal Using Quail Egg Shell and Snail Shell Biosorbents” | | Adjusted | |
| **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 covers the aim, methodology, and key findings, but omits some important quantitative details that would enhance its value for readers and database indexing.  Some suggestions for improvement:   * Include optimal removal efficiency figures for both QES and SS (e.g., “up to 95% for SS at pH 7 and 40 °C”). * Mention the most suitable isotherm model fit for each material (e.g., Langmuir for SS, Freundlich for QES). * Specify the particle size used and a brief statement on why these sizes were chosen. * Condense overly generic statements in favour of specific quantitative insights. | | This has been addressed | |
| **Is the manuscript scientifically, correct? Please write here.** | The study’s experimental design explores the effects of dose, temperature, pH, contact time, and agitation speed. While the design is appropriate and aligns with adsorption science principles, certain methodological elements lack clarity or robustness. Please improve the following:   * The number of replicates per experiment is not specified. * There are no error bars or confidence intervals reported in any of the plots. * Statistical analysis is limited to R² values, without validation of assumptions or significance testing * Strengthening these elements would reinforce the scientific validity of the conclusions. | | Due to resource and time constraints, each experiment was performed in duplicate. While triplicate runs are standard for ensuring data reproducibility, the results presented reflect consistent trends across measured variables. R² values from the adsorption models are appropriate and expected in adsorption studies, even with limited replicates. | |
| **Are the references sufficient and recent? If you have**  **suggestions of additional references, please mention them in the review form.** | No. While the manuscript cites a number of relevant works, many are dated (pre-2010), and the reference list would benefit from inclusion of recent research (2022–2025) on sustainable adsorbents and oil remediation. | | References have been updated | |
| **Is the language/English quality of the article suitable for scholarly communications?** | Only partly. There are occasional grammatical inconsistencies and overly long sentences that may hinder comprehension for an international audience. The flow and precision of technical statements could also be improved with professional language editing. | | Grammatical errors have been fixed | |
| **Optional/General** comments | * The manuscript would benefit from inclusion of a schematic diagram of the experimental workflow, from sample preparation to batch adsorption and isotherm modelling. * Consider reporting adsorption kinetics (e.g., pseudo-first-order, pseudo-second-order) to support isotherm interpretations. * Adding a brief cost or environmental impact analysis in the conclusion would enhance the applicability and industrial relevance of the study. * Figures should include error bars and all tables should clarify whether values are means of replicates or single measurements. * The discussion section should be expanded to include comparison with more recent studies and a clearer articulation of how this work advances the state of the art. | | 1. Experimental Workflow for Oil Spill Adsorption Using QES and SS has been included 2. Adsorption kinetics to support isotherm interpretations have been reported 3. The cost or environmental impact analysis was not part of the original experimental scope, however, the potential implications based on the materials used was acknowledged. 4. This has been addressed: Each experiment was conducted in duplicate due to laboratory access limitations. 5. The discussion section has been expanded to include comparisons with recent studies and how the work advances the current state of knowledge is shown. | |
| **PART 2:** | | | | |
|  | | **Reviewer’s comment** | | **Author’s Feedback** (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 detail)*  None. | |  |