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| Journal Name: | [**Journal of Engineering Research and Reports**](https://journaljerr.com/index.php/JERR) |
| Manuscript Number: | **Ms\_JERR\_131153** |
| Title of the Manuscript:  | **ANALYSIS OF SUBMERSIBLE PUMP PERFORMANCE IN A WATERLOGGED ENVIRONMENT** |
| Type of the Article | **Research 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 *(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. A minimum of 3-4 sentences may be required for this part.** | This manuscript provides valuable insights into the performance of submersible pumps in waterlogged environments. The study helps optimize hydraulic system design and improve efficiency by analyzing pressure losses and flow rate variations. The MATLAB/Simulink simulation approach adds credibility and technical depth to the research. These findings can benefit industries involved in fluid transportation, drainage systems, and energy-efficient pumping solutions. |  |
| **Is the title of the article suitable?****(If not please suggest an alternative title)** | The current title is relevant but could be more precise in emphasizing optimization and hydraulic losses. Suggested Alternative Title: Performance Analysis and Optimization of Submersible Pumps in Waterlogged Conditions. |  |
| 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 provides a clear summary of the study but contains minor grammatical issues. It should emphasize key findings earlier and be more concise. Suggested improvement: Clearly differentiate the pump and pipeline flow rates, and highlight the significance of pressure losses in system efficiency. |  |
| Is the manuscript scientifically, correct? Please write here. | Yes, the study follows a structured scientific approach with valid methodologies. However, the data analysis could be strengthened by comparing the simulation results with real-world experimental data or theoretical pump efficiency models. |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.** | Some references are outdated or loosely related. The authors should include more recent works on submersible pump efficiency, pressure loss calculations, and computational fluid dynamics in pumping systems. |  |
| Is the language/English quality of the article suitable for scholarly communications? | The language is understandable, but there are grammatical errors and awkward sentence structures. A language revision is recommended to improve clarity and readability. |  |
| Optional/General comments | The manuscript is well-structured and presents an important study on submersible pump performance. However, the readability and flow of the discussion could be improved. Additional comparisons with experimental or real-world case studies would strengthen the manuscript further.**The manuscript presents an important study on submersible pump performance in waterlogged environments, utilizing MATLAB/Simulink simulations for analysis.** **The research is methodologically sound and contributes valuable insights into optimizing pump efficiency.****However, minor revisions are needed to improve the clarity of the abstract, refine the discussion of results, and enhance the quality of English language usage.** **Strengthening the reference section with more recent studies on submersible pumps and pressure loss calculations would further improve the paper.****Overall, the manuscript is suitable for publication after implementing these minor revisions.** |  |

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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: | **Md. Shariful Islam** |
| Department, University & Country | **Khulna University of Engineering & Technology (KUET), Bangladesh** |