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| Journal Name: | [**Advances in Research**](https://journalair.com/index.php/AIR) |
| Manuscript Number: | **Ms\_AIR\_132368** |
| Title of the Manuscript: | **Research Progress on Monitoring and Reinforcement of Prestressed Concrete Cylinder Pipe** |
| Type of the Article | **Review** |

PART 1: Comments

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|  | **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 is crucial for the scientific community as it advances monitoring and reinforcement techniques for Prestressed Concrete Cylinder Pipe (PCCP). It highlights non-destructive testing methods and strengthening strategies to enhance pipeline safety and longevity. The findings support sustainable infrastructure management and failure prevention in water supply systems.* | *The introduction of CFRP reinforcement and external prestressing methods highlights practical strategies to extend the service life of aging PCCP infrastructure, providing actionable insights for engineers and policymakers in urban water management.* |
| **Is the title of the article suitable?**  **(If not please suggest an alternative title)** | *Yes* | *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 effectively outlines the study's focus on monitoring and strengthening Prestressed Concrete Cylinder Pipe (PCCP). It highlights wire breakage detection methods using electromagnetic and optical fiber technologies, along with reinforcement techniques like CFRP and external prestressing. However, author should add the objective/ purpose of the article plus briefly mention key findings and their practical impact on pipeline*  *safety for more clarity. A more balanced emphasis on both monitoring and reinforcement would improve the abstract's overall structure.* | *Thank you for your valuable comments, and I will make changes accordingly.* |
| **Is the manuscript scientifically, correct? Please write here.** | *The manuscript appears scientifically accurate, with well-supported claims, references, and methodologies for PCCP monitoring and reinforcement.* | *Thank you for your valuable comments.* |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.** | *The manuscript includes a substantial number of references, many of which are recent and relevant* | *Thank you for your valuable comments.* |
| **Is the language/English quality of the article suitable for scholarly communications?** | *Suitable for scholarly communication, with clear technical explanations and proper terminology.* | *Thank you for your valuable comments.* |
| **Optional/General** comments | * *Introduction section should include objective/ purpose of the review article preferably in the last paragraph.* * *The body part of the article should add more figures at least one for each subsection to aid readers comprehension. Suggested to add 2 figures on PCCP monitoring; eddy current, fibre optic sensor, and add 2 figures on PCCP reinforcement/ repair; CFRP reinforcement and external pre-stressed reinforcement.* * *Suggested to improve the overall presentation to create balance between monitoring and reinforcement sections and ensuring smooth transitions as well as enhance readability. Preferably to add another section*   *5.0 discussion; to compare methods and discuss research gaps.*   * *Conclusion section should answer the article’s objective/ purpose. Usually in a review paper we would like to see highlight on research gaps and potential future study. So it is advice to at least include objective/ purpose in intro section and then answer it in conclusion.* | *Thank you for your valuable comments, and I will make changes accordingly.* |

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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)* |  |