

Journal Name:	<a href="#">Asian Research Journal of Current Science</a>
Manuscript Number:	<b>Ms_ARJOCS_1778</b>
Title of the Manuscript:	<b>Replication of Flows in A Pipe Network of Sprinkler Irrigation System Using Ansys-CFD</b>
Type of the Article	<b>Original Research Article</b>

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**PART 1: Comments**

	Reviewer's comment	Author's Feedback <i>(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i>
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.	Manuscript keeps the vital and prime importance for the scientific community because it addresses one of the key problems of current era by dealing with the management of water for irrigation purposes. Agriculture sector not only fulfils the necessitates of the society but also plays a key role in GDP of any country. This manuscript explains the effective, efficient and economic use of sprinkle irrigation system by replicating the flow of water into a pipe network utilising Ansys-CFD.	Thank you for acknowledging the relevance and importance of the manuscript. The study effectively demonstrates the application of ANSYS-CFD in optimizing sprinkler irrigation systems, addressing water management problem, and contributing to agricultural sustainability.
Is the title of the article suitable? (If not please suggest an alternative title)	Title of the article is suitable, but, in my opinion it should be more professional and dynamic like <ol style="list-style-type: none"><li>1. Imitation of Flux in Pipe Latticework of Sprinkler Irrigation System using Ansys-CFD</li><li>2. Reconstruction of Movement in Criss-cross of Pipe Sprinkle Irrigation System using Ansys-CFD</li><li>3. Replication of Flows in a pipe series of Sprinkler Irrigation System using Ansys-CFD.</li></ol>	<b>Replication of Flows in A Pipe Network of Sprinkler Irrigation System Using Ansys-CFD</b>
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.	Abstract of the article should be made more comprehensive by mentioning one to two lines about methodology in detail. Results should also be explained in more details by adding one to two lines describing the objectives and research questions.	The abstract has been revised to include additional details about the methodology, such as using the k-epsilon turbulence model and mesh independence study. Furthermore, the key objectives, research questions, and significant results are now explicitly mentioned to make the abstract more comprehensive and informative.
Is the manuscript scientifically, correct? Please write here.	Yes, manuscript is scientifically correct based on the Bernoulli's Law, Navier-Stokes equations, Reynolds stresses, k-epsilon turbulence model, $\varepsilon$ -equation, and 3D Model.	Thank you for recognizing the scientific validity of the study. We have ensured that all computations and simulations are accurately based on the fundamental principles and verified models mentioned.
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.	References aren't sufficient. Some more references should be added about conceptual framework covering methodology. Literature review should also be extended.	We have addressed this concern by adding new references to support the conceptual framework and methodology. The literature review section has been expanded to include recent and relevant studies on sprinkler irrigation systems and computational fluid dynamics.
Is the language/English quality of the article suitable for scholarly communications?	Yes, the language / English quality of the article is suitable for scholarly communications.	Thank you for your positive feedback. We have ensured the manuscript maintains a high standard of language suitable for scholarly communication.
<u>Optional/General</u> comments	This manuscript is a worthy and knowledgeable addition in the literature covering one of the important problems of current era.	We are grateful for your encouraging comments. We believe this study will provide valuable insights into the application of computational methods in water management and contribute to addressing a critical global issue.

**PART 2:**

	Reviewer's comment	Author's comment <i>(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)</i>
Are there ethical issues in this manuscript?	<u>(If yes, Kindly please write down the ethical issues here in details)</u>	