

Review Form 3

Journal Name:	Journal of Experimental Agriculture International
Manuscript Number:	Ms_JEAI_130119
Title of the Manuscript:	Impact of Alternate Wetting and Drying Irrigation (AWDI) on water saving and yield of transplanted rice through large scale demonstration
Type of the Article	

PART 1: Comments

	Reviewer's comment	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.	The manuscript is certainly of interest to the scientific community, which aimed to evaluate the effect of alternate wetting and drying irrigation (AWDI) on rationalizing irrigation water use and thus water conservation and rice production in cultivated rice through large-scale demonstration experiments. The author reached promising results that may support production enhancement and thus increase the total yield from a technical and economic point of view.	Agree
Is the title of the article suitable? (If not please suggest an alternative title)	The title is good but I suggest it be as follows: Impact of Alternate Wetting and Drying Irrigation (AWDI) on water saving and yield of t rice	Yes changed
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 of the article is clear, good and comprehensive, but abstract should be written as one piece without paragraphs	Yes changed (A large-scale demonstrations was conducted on Alternate Wetting and Drying Irrigation (AWDI) on water saving and yield of Transplanted Rice in Mettur-Noyyal confluence sub basin areas of Tamil Nadu, India, by the Tapioca and castor Research station, Yethapur from the year 2019 to 2023. For adopting the safe AWDI, the depth of ponded water on the field is monitored using a 'Field Water Tube' which is made of 40-cm long plastic pipe having a diameter of 15 cm which is perforated with holes on all sides. The AWDI technology consumed ranges between 871 mm to 950 mm of irrigation water, higher water use efficiency (6.22 to 7.53 kg ha <sup>-1</sup> mm <sup>-1</sup> ) and number of irrigations were recorded between 22 to 30. Adopting AWDI in rice resulted in the highest yield of 7045 kg ha <sup>-1</sup> compared to the conventional method, which produced 5927 kg ha <sup>-1</sup> across all experiments. The highest gross returns (Rs. 131927 ha <sup>-1</sup> ), net return (Rs. 77438 ha <sup>-1</sup> ) and BCR (2.99) were observed in adoption of AWDI. The AWDI will be an appropriate technology for water saving in rice. This technology saves up to 49 per cent of irrigation water without reducing yield, and it reduces the number of irrigations by 12 compared to farmers)
Is the manuscript scientifically, correct? Please write here.	The manuscript is scientifically correct, as the author followed the scientific method to conduct the field experiment, where he was able to define the problem, set the correct assumptions, choose the required treatments, collect and analysed the data, and reach convincing and logical results. The results were presented in a clear, organized manner, and the author cited previous studies that support the results he obtained.	Yes
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.	The references are recent and cover the research topic well. I suggest that the author add additional recent references and cite additional references to enhance the results obtained.	Yes added

Review Form 3

Is the language/English quality of the article suitable for scholarly communications?	language quality of the article is good, suitable and understandable for scholarly communications	Yes
Optional/General comments	Review the comments and corrections on the original manuscript attached.	Suggested corrections were carried out

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?	No	I agree with all the comments given by the reviewer and I incorporated all the corrections.