*Date: 26 March 2025*

Editor-in-Chief

Madras Agricultural Journal

Subject: Submission of an Original article for possible publication in your esteemed journal

**Dear Editor,**

Herein, I am submitting an original article entitled “***Comparative Bio-Economic Efficiencies of Different Organic Manures in Winter Rice***”, for possible publication in your esteemed journal ‘**Madras Agricultural Journal’**.

The experiment was conducted to analyze comparative bio-economic efficiencies of different organic manures in winter rice (locally known as boro rice) of Bangladesh. This study consists of 11 treatments of different combination of chemical fertilizer and organic manures. Vermicompost, Trico-compost, Cow dung, Poultry manure and Co-compost @ 2.5 t ha-1 or 5 t ha-1 were applied with recommended fertilizer dose (RDF) or 75% RDF, respectively. Only RDF was considered as control. Overall, the result indicates that the combination of RDF with 2.5 t ha-1 organic manure significantly enhanced the yield attributes and yield of winter rice while 75% RDF coupled with any of the organic manures studied found less effective than RDF in terms of yield. Poultry manure and cow dung @ 2.5 t ha-1 with RDF resulted in higher benefit cost ratio (2.34 and 2.28) than single application of RDF (2.05) in winter rice which is also closely followed by co-compost application @ 2.5 t ha-1 (2.00). The BCR was determined to be less than 1 for vermicompost and trico-compost at a rate of 5 t ha⁻¹ with RDF. Considering both productivity and profitability, poultry manure appeared as the best manure to be incorporated with RDF. Based on availability and other factors cow dung and co-compost @ 2.5 t ha-1 with RDF could also be applied for sustainable and increased yield of winter Rice.

With the submission of this manuscript, I would like to undertake that the above-mentioned manuscript has not been published elsewhere, or not under consideration for publication elsewhere; and all co-authors have seen the manuscript and agreed to its submission to the ‘**Madras Agricultural Journal’**.

I hope you find our manuscript suitable for publication and look forward to hear from you.

Yours sincerely,

**Prof. Dr. Md. Parvez Anwar**

*Corresponding author*

Department of Agronomy,

Bangladesh Agricultural University

Mymensingh-2202

E-mail: parvezanwar@bau.edu.bd

**Title Page**

**Comparative** **Bio-Economic Efficiencies of Different Organic Manures in Winter Rice**

Susmita Gosh1, Sabina Yeasmin1, Sumona Akter Jannat2, Nazmun Naher Priya1, Nayma Binta Mahmud1, A K M Mominul Islam1 and Md. Parvez Anwar1\*

1Department of Agronomy, Bangladesh Agricultural University, Mymensingh-2202, Bangladesh

2 Department of Agricultural Chemistry, Bangladesh Agricultural University, Mymensingh-2202, Bangladesh.

\*Correspondence: parvezanwar@bau.edu.bd