REVIEWER 2

Uberaba, Minas Gerais, Brazil: 26/05/2025

Corrections made to the text

Specific recommendations for improvement include:

Correct "atributes" to "attributes" to ensure terminological accuracy（Line 35).

- Word replaced at the request of the other reviewer.

The abbreviation of SMP in Table 1 is not fully explained. It is recommended to add (Lines 115–116).

- Abbreviation explained

Clarify whether the maximum FHW value of 1.35 kg at 376 kg ha^{-1} P_2O_5 (94.5%) was derived from regression models or direct measurements. Explicitly state the methodological basis for this conclusion（Lines 273–275.

- It was explained that from the equation of the regression curve it was possible to calculate the maximum MFC of 1.35 kg, at a dose of 376 kg ha-¹ P_2O_5 (94.5%) of the fertilizer used.

Inter-season management:

Were there any other agricultural operations during the interval between the two test seasons? For example, stubble clearing measures, tillage, etc. It is recommended to state it clearly to reduce the possibility of residual factors.

-Part of this is already included in the text of the article:

In preparing the area, two harrowings were carried out, one heavy and deeper with a harrow of 18 30-inch discs, the other superficial with a leveling harrow of 44 24-inch cut-out discs, for the next being the digging and subsequent transplanting of the broccoli seedlings (Brassica oleracea var. itálica) in the first cycle.

- New part inserted in the text:

Immediately after completing the harvest of the first cycle, two harrowing operations were carried out again (medium plow harrow and light leveling harrow), to incorporate residues and level the soil in the area, followed by digging in and then transplanting the seedlings for the second cycle.

The organic matter content of “granular organomineral fertilizer (Org) (formula 05-26-00)” is not provided, which may affect the reader’s understanding of its mechanism of action to some extent（Line 130).

- The following paragraph has been inserted into the text of the article: The granulated organomineral fertilizer (Org) used, based on filter cake, was formula 05-26-00 (N - P - K), which contained 8% total organic carbon (0.14 g dm-3 of organic matter).

Language polishing:

The English grammar and vocabulary throughout the paper need some improvement from the author so that the readers can read it smoothly.

- The text was sent to the company that translated the article for revision after adjustments.

Statistical notation: It is recommended that the (** = $p < 0.05$; * = $p < 0.01$) in the notes below all tables in the text be replaced with (*$p<0.05$, **$p<0.01$). This will make the expression more standardized and avoid misunderstanding among readers (Lines 246–247; 322–323; 368–369; 449–450; 481–482).

- The changes were made to all the tables, as suggested.

PCMP performance dynamics:

PCMP treatment had an obvious advantage in the first season, but declined in the second season. Is it because the change in soil pH affected the degradation rate of the fertilizer coating? In this part, the author is advised to make a speculative analysis by citing the research results of others to improve the integrity of the article.

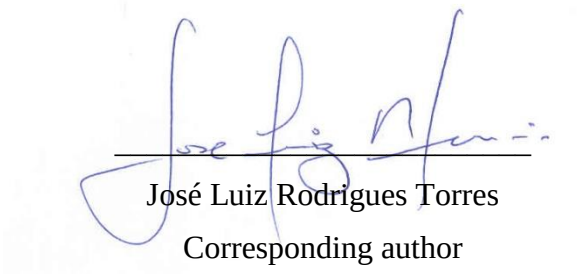
- Results from other authors have been cited in the text in the discussion of results.

Residual effect evaluation:

The current assessment of Org's residual effects based solely on soil nutrient data appears limited. Incorporating supplementary biological indicators (e.g., soil microbial activity, enzyme assays) would strengthen the evidence through multidimensional quantification.

- Unfortunately, these analyses were not carried out in this study; however, they will be carried out in future studies.

I would like to thank the reviewer for his suggestions on improving the quality of the article, all of which have been taken on board and inserted into the body of the text:



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