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## REVIEWER'S REPORT

Manuscript No.: IJAR-57780

Title: Evaluation of Moisture Content Consistency Using Standard Loss-on-Drying Methods

### Recommendation:

- Accept as it is .....
- ✓ Accept after minor revision.....
- Accept after major revision .....
- Do not accept (*Reasons below*) .....

Rating	Excel.	Good	Fair	Poor
Originality		✓		
Techn. Quality		✓		
Clarity		✓		
Significance		✓		

Reviewer Name: Dr S. K. Nath

### Detailed Reviewer's Report

#### Strength of the study:

- The study addresses a practical and relevant analytical topic with good industrial and laboratory importance
- The objective of comparing two moisture determination methods is clear and well defined
- Methodology is structured and easy to understand with suitable statistical analysis
- Use of correlation, regression, Bland–Altman analysis, and uncertainty evaluation adds scientific strength
- The conclusion is useful for routine laboratory application and quality control practices

#### Weakness of the study:

- Sample size appears limited and broader validation on more materials would improve the work
- Some grammatical errors and sentence repetition are present throughout the manuscript
- Correlation coefficient values are reported differently in sections and need clarification
- Discussion can be expanded with more comparison to recent published studies
- Minor formatting inconsistencies are noted in equations, references, and figure presentation

#### Reviewers Comments:

This manuscript presents a useful comparative evaluation of two standard methods for moisture content determination. The topic is relevant for analytical laboratories and quality control applications. The methodology is clearly described, and the use of statistical tools such as regression analysis, bias estimation, Bland–Altman analysis, and uncertainty evaluation strengthens the scientific quality of the work. The findings are practical and support the routine use of moisture balance instruments after calibration. The manuscript is generally well organized and easy to follow. However, the language requires minor grammatical correction and editing to improve clarity and readability. Some repeated statements in the discussion and conclusion may be shortened. A minor clarification is also needed regarding the reported correlation coefficient values to maintain consistency throughout the text. Ethical clearance is not specifically applicable in this laboratory-based study, which is acceptable. The main limitation is the small sample range and lack of validation across different material categories. Overall, this is a meaningful study with practical application and is suitable for publication after minor revision.

#### Previously Published anywhere/Plagiarism check:

There is no obvious indication that this work has been published previously. The manuscript appears original and based on experimental work carried out by the authors. The reference list is appropriate and relevant to the subject. A standard plagiarism check is recommended before publication to confirm originality and ensure there is no significant textual overlap with previously published methodological studies.