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REVIEWER'S REPORT

Manuscript No.: **IJAR-52980** Date: 26-07-2025

Title: LABORATORY TECHNOLOGIES FOR CORROSION INHIBITOR RESIDUALS ANALYSIS

Recommendation:
Accept as it is .....YES.....
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: Mr Bilal Mir

Reviewer's Comment for Publication.

Title Evaluation
The title accurately reflects the technical focus and scope of the paper. It clearly indicates that the study is centered on laboratory methods for analyzing residuals of corrosion inhibitors, which is essential for scientific and industrial audiences.

Abstract Evaluation
The abstract effectively summarizes the core objectives and scope of the study. It provides a concise overview of corrosion inhibitors' role, the necessity of residual analysis, and the range of laboratory technologies covered. It successfully conveys the relevance of the topic to industrial performance, economic efficiency, and environmental compliance. The language is clear, focused, and professional.

Introduction Evaluation
The introduction sets a strong contextual foundation for the study by outlining the industrial importance of corrosion inhibitors and the critical need for monitoring their residuals. It defines corrosion and inhibitors in accessible terms and transitions smoothly into the rationale for laboratory analysis. The importance of accurate residual detection is emphasized appropriately, linking technological application to broader industrial and regulatory benefits.

Content and Thematic Depth
The paper demonstrates a comprehensive understanding of the subject matter. It addresses the key aspects of corrosion inhibitor analysis, including the scientific principles behind different methods such as titration, chromatography, spectroscopy, and electrochemical techniques. The discussion provides both a technical and practical perspective, making it useful for researchers and industry practitioners alike. The thematic structure indicates a well-organized exploration of the methodologies and their respective contexts of application.

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Language and Clarity
The language throughout is technical yet accessible, maintaining clarity and precision appropriate for a scientific article. Terminology related to corrosion science and analytical chemistry is used accurately and purposefully. Sentences are well-structured, with a logical progression of ideas.

Scientific Relevance
The study is of high scientific and industrial relevance. Monitoring corrosion inhibitor residuals is a key part of ensuring the efficiency of protective systems and maintaining safety in various sectors. The discussion supports current efforts toward better corrosion management and aligns with ongoing advancements in environmental safety and process optimization.

Conclusion (Implied)
Although the detailed conclusion is not presented in the excerpt, the abstract and introduction together suggest that the paper leads toward a clear understanding of how different technologies contribute to optimizing corrosion management through precise analysis of inhibitor residuals.

Overall Assessment
The manuscript offers a valuable contribution to the field of corrosion science and chemical analysis. It provides a well-structured, clear, and technically sound overview of laboratory methods for analyzing corrosion inhibitor residuals, with clear relevance to industrial application and environmental stewardship.