Review Form 3

Journal Name:	**Journal of Materials Science Research and Reviews**
Manuscript Number:	**Ms_JMSRR_127358**
Title of the Manuscript:	**SUPPRESSION OF MILD STEEL DEGRADATION IN H2SO4 MEDIUM USING COW BONE ASH - POLYANILINE COMPOSITE AS INHIBITOR: ELECTROCHEMICAL AND THERMOMETRIC STUDIES**
Type of the Article	

PART 1: Review Comments

Compulsory REVISION 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. Why do you like (or dislike) this manuscript? A minimum of 3-4 sentences may be required for this part.		
Is the title of the article suitable? (If not please suggest an alternative title)		
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.		
Are subsections and structure of the manuscript appropriate?		
Please write a few sentences regarding the scientific correctness of this manuscript. Why do you think that this manuscript is scientifically robust and technically sound? A minimum of 3-4 sentences may be required for this part.		
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form. -		

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Minor REVISION comments **Is the language/English quality of the article suitable for scholarly communications?**		
Optional/General comments	1. Abstract sentences are weakly framed 2. Importance of your work must be highlighted in the introduction 3. Importance of mild steel must be highlighted in introduction: 4. English language must be revised 5. In the PDP plots in figure 3 you should mention that cow bone ash is pickling type inhibitor. Check this • effect of Crataegus oxyacantha and Prunus avium plant leaf extracts on the corrosion of mild steel in hydrochloric acid solution. International Journal of Industrial Chemistry, 9(3), 255-263. • El Khatib, L. W., Rahal, H. T., & Abdel-Gaber, A. M. (2020). Synergistic Effect between Fragaria ananassa and Cucurbita pepo L Leaf Extracts on Mild Steel Corrosion in Hydrochloric Acid Solutions. Protection of Metals and Physical Chemistry of Surfaces, 56(5), 1096-1106. 6. Nyquist plot in figure 4 must be of same x and y -re draw 7. Discussion of bode plot must be improved • Eucalyptus leaf extract as a eco-friendly corrosion inhibitor for mild steel in sulfuric and phosphoric acid solutions; AM Abdel-Gaber, HT Rahal, FT Beqai - International Journal of Industrial Chemistry, 2020 • effect of Crataegus oxyacantha and Prunus avium plant leaf extracts on the corrosion of mild steel in hydrochloric acid solution. International Journal of Industrial Chemistry, 9(3), 255-263. • Abdel-Gaber, A. M., Rahal, H. T., & El-Rifai, M. S. (2021). Green Approach towards Corrosion Inhibition in Hydrochloric Acid Solutions. Biointerface Res. Appl. Chem., 11, 14185-14195. • El Khatib, L. W., Rahal, H. T., & Abdel-Gaber, A. M. (2020). Synergistic Effect between Fragaria ananassa and Cucurbita pepo L Leaf Extracts on Mild Steel Corrosion in Hydrochloric Acid Solutions. Protection of Metals and Physical Chemistry of Surfaces, 56(5), 1096-1106. • S El Houssieny,Abdel-Gaber, A. M., Rahal, H. T., & Beqai, F. T Eco-friendly corrosion inhibitor for mild steel in acidic media, IJCSI (2022) 8. At the end of your article, you do not offer recommendations or address the implications of your findings.	

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?	*(If yes, Kindly please write down the ethical issues here in details)*	

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Reviewer Details:

Name:	**Hanan Talal Rahal**
Department, University & Country	**Beirut Arab University, Lebanon**