Review Form 3

Journal Name:	Asian Journal of Physical and Chemical Sciences
wi:	**Ms_AJOPACS_125629**
Title of the Manuscript:	**Determination of the anticorrosive properties of trimebutine maleate for aluminum corrosion in 2M HCl. Gravimetric and quantum chemistry approaches.**
Type of the Article	**Research article**

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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.	Yes, corrosion protection of Al surface in acidic corrosive environment becomes a very vital issue in industries	
Is the title of the article suitable? **(If not please suggest an alternative title)**	Yes, the title of the article is appropriate	
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.	-In the abstract section, line 2, after the name of the inhibitor, it's abbreviation should be given and in other parts, use the abbreviation. Also in line 9, instead of density functional theory DFT should be used because it is explained in line 3, and also consider this point in other parts of the article. -In the abstract section, if possible, the important results related to DFT should be given quantitatively.	
Are subsections and structure of the manuscript appropriate?	Yes, Satisfactory	
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.	The current article has evaluated the corrosion behaviour of Al in 2M HCI environment in the presence of TM inhibitor and using weight loss and DFT methods. According to the reviews, the present work is interesting and well written, and after revision, it can be published in this journal.	
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.	In the reference section, the name of the journals should be italicized that this correspondence is not observed. On the other hand, In some references, the abbreviation of the journal is given, that the full name should be given and the references should be reviewed .	

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Is the language/English quality of the article suitable for scholarly communications?	Grammatical errors can be found in various parts of the paper, which must be corrected. (fair, need improvements)	
Optional/General comments	The current article has evaluated the corrosion behavior of Al in 2M HCl environment in the presence of TM inhibitor and using weight loss and DFT methods. According to the reviews, the present work is interesting and well written, and after revision, it can be published in this journal. The items that need to be corrected are as follows: -In the abstract section, line 2, after the name of the inhibitor, it's abbreviation should be given and in other parts, use the abbreviation. Also in line 9, instead of density functional theory DFT should be used because it is explained in line3, and also consider this point in other parts of the article. -In the abstract section, if possible, the important results related to DFT should be given quantitatively. -In the introduction section, at least two literature reviews about TM inhibitor should be given. -In the introduction section, the innovative aspect of the article should be specified. In the weight loss measurement section, in equation 1 (the definitions of parameters such as Se and t are omitted and there is no mention of them. -The weight loss method is very outdated and does not provide the necessary accuracy for the accurate evaluation of the corrosion measurement. Therefore, presenting one of the EIS or polarization tests is mandatory. -In this article, scanning electron microscope images (SEM) of aluminum surface with and without TM inhibitor after immersion in corrosive environment should be provided. also, to prove the adsorption of the TM inhibitor on the aluminum substrate, it is necessary to provide one of the EDS or Raman or FTIR tests. -Grammatical errors can be found in various parts of the paper, which must be corrected -In the reference section, the name of the journals should be italicized that this correspondence is not observed. On the other hand, in some references, the abbreviation of the journal is given, that the full name should be given and the references should be reviewed.	

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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)*	

Reviewer Details:

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