**SDI Review Form 1.6**

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| Journal Name: | **Physical Science International Journal** |
| Manuscript Number: | **2014_PSIJ_10528** |
| Title of the Manuscript: | **CORROSION INHIBITION AND PITTING CORROSION OF SOME AUSTENITIC STAINLESS STEEL SAMPLES IN 2.5 M NaCl SOLUTION BY 3- AMINO-1,2,4-TRIAZOLE** |
| Type of the Article | **Original research** Article |

## General guideline for Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound.
To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

(http://www.sciencedomain.org/page.php?id=sdi-general-editorial-policy#Peer-Review-Guideline)

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**PART 1: Review Comments**

| | **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)* |
|---|---|---|
| **Compulsory** REVISION comments | **Fig.1a** Review the title<br><br>Page.7 **Revie** where $j^{o}_{corr}$ and $j_{corr}$ are the corrosion current density in the absence and presence of ATA in chloride solution respectively, where $j^{o}_{corr}$ and $j_{corr}$ are the corrosion current density in the absence and presence of ATA in chloride solution respectively.<br>Page .9<br>It is obvious that in all cases, the inhibition efficiency decreases with elevating temperature. Such behavior can be interpreted on the basis that an increase in temperature decreases the strength of adsorption. **These results confirm the suggestion that the adsorption process is a chemisorption in nature**.<br><br>• The author have suggest that the inhibition mechanism involves physical-adsorption (physisorption) at it have been supported by Ea values, IE decrease with temperature and ΔGads values (all values in a good range for physisortion)., it seems that there is a contradiction in fact since ΔG are assigned:<br>1) at -20 kJ/mol and more (physisorption)<br>**2)** At ~-40 to -20 kJ/mol (semi-physorption/semi-chemisorption<br>**3)** At -40 kJ.mol and less (chemisorptions) | |

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| | **Fig.4** Review the title | |
| **Minor** REVISION comments | | |
| **Optional/General** comments | • Supportive information by means of electrochemical studies (electrochemical impedance) should be included<br>• I would suggest that the author include the Langmuir and Frumkin curves<br>• Why do not choose the same concentration from inhibitor for all samples | |

**Note: Anonymous Reviewer**