



SDI Review Form 1.6

Journal Name:	<u>International Research Journal of Pure and Applied Chemistry</u>
Manuscript Number:	Ms_IRJPAC_22529
Title of the Manuscript:	Augmentation of Corrosion Inhibition Property of Thiourea by Aliphatic Amines in presence of aggressive Cl⁻ ions and acidic SO₂ environment
Type of the 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	- Under pt 2.3.1, Vapour determination test, the expansion of the letters used in the equation is mentioned. 't' is given as time of exposure in sec., but the letter 't' does not appear anywhere in the equation. This has to be corrected. - In Table 4, under Salt spray test: - What is 'blank' ? - In the title of the table, it is mentioned as inhibition efficiency of thiourea... but the IE value is not given in the table. Only if the IE of thiourea is given, a comparison can be made in the presence of other amines. - Synergistic effect calculation could be given to facilitate better interpretation. - Along with the Fig. 2, Micrograph of mild steel coupon, micrograph for blank also should have been given for comparison and understanding - Along with the fig.3, SEM of the blank should also have been given for comparison and understanding.	In equation 1. T outside the bracket is replaced by t. Blank is the mild steel coupon which is not treated by any inhibitors before testing. Results of thiourea is also added to text Micrograph and SEM of Blank Coupon is also added to text.



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<u>Minor</u> REVISION comments	1. In the abstract, the third sentence starts with 'And', rather, it has to be a continuation of the previous sentence, "Development of these basic....." 2. Under 2.2.1: Weighing balance, the precision is given as 0.01 mg, whereas, 0.0001mg is suggested to obtain accurate results. 3. In fig.1, whether it is Fe^{2+} or Fe^- should be verified. 4. Under 3.1, Materials: the VPCIs used has to be listed along with metal used. 5. In the title above fig.2 and table 5, the words 'To determine' could be removed as it affects the sentence formation. 6. In Table 5, Values for control group should have been given for easy understanding 7. The inhibition efficiency of thiourea + ethylamine is decreasing in the Salt spray test, whereas, it is increasing under Sulphurdioxide test. Any specific reason?	
<u>Optional/General</u> comments	The work aims at maintaining the quality of steel which is very essential.	