



SDI Review Form 1.6

Journal Name:	Asian Journal of Chemical Sciences
Manuscript Number:	Ms_AJOCS_34792
Title of the Manuscript:	STUDIES OF THE INHIBITIVE/ADSORPTIVE BEHAVIORS OF Costus afar LEAVES EXTRACT ON THE GROWTH OF SULPHUR REDUCING BACTERIA AND ANAEROBIC CORROSION OF PIPELINE STEEL CAUSED BY SULPHUR REDUCING BACTERIA
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.

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(<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	<p>1. Chernova et al, 2013- Year stated not as in the reference list.</p> <p>2. References list format not consistent.</p> <p>3. To improve the format and english grammar in the manuscript. -My suggestion this manuscript need to be proof read by the professional proof reader. The quality and grammatical error should be corrected.</p> <p>4. to be specific the value need to be used in the equation. Need to mention all the used values i.e K, R, T and others in the equations.</p> <p>6. How the anaerobic medium was prepared also not mentioned in the manuscript.</p> <p>5. Spelling mistake in figure 1.(absorbance not absorbance)</p> <p>6. Figure 2 & 3 shown the same data except the unit. what is the unit for (mdd)?</p>	<p>We appreciate the reviewer's comment and in response to his comment we have worked on the following;</p> <p>1. The reference Chernova <i>et al</i>, 2013 has been corrected with the correct reference Chernova <i>et al</i> 1978.</p> <p>2. The manuscript has been proofread and a reference list format maintained.</p> <p>3. The alphabets used in the equation are all defined.</p> <p>4. The experiment was carried out in anaerobic jar though there was no mention of such previously in the manuscript, but the correction has been effected.</p> <p>The wrong spelling of absorbance in figure 1 has been corrected</p> <p>5. The figure 2 & 3 look alike yes, but fig 2 is weight loss against concentration while figure 3 is corrosion rate against concentration. The unit mdd is ment to be mg per day and the correction has been effected too.</p> <p>Thank you.</p>



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<p><u>Minor</u> REVISION comments</p>	<p>1. Method of extraction was not mention in details. How you obtain the extract? This experiment was conducted using the costus afar leaves (CAL) extract or CAL juice? Need to be more specific in the information regarding the methods.</p> <p>2. There are no discussion was mention and highlighted in the manuscript. -To add more discussion such as analysis of the chemical from the extraction, any active compounds contribute to inhibitor / antimicrobial etc. - to discuss the output from the extraction i.e how much the CAL extract obtain from how many g of raw material.</p> <p>3. it will be better if the manuscript was also supported by the SEM/FESEM and EDX analysis.</p> <p>4. "The microbial influenced corrosion inhibition by the plant extract was as a result of the inhibition of the growth of the <i>Desulphovibrio sp.</i> and or the adsorption of the plant extract molecules on the surface of the metal." -this can be supported if you conducting the experiment with CAL extract + medium as a reference.</p>	<p>The method of extraction was clearly mention in the manuscript and the <i>Costus afar</i> leaves extract was used not the juice As regards to analysis active compound that contributed to the inhibition the test sample extract has been reported previously by other authors, to contain some compounds with inhibiting functionalities which are suggested to be responsive for the inhibition.</p>
<p><u>Optional/General</u> comments</p>	<p>1. my suggestion to change the title to: THE INHIBITIVE BEHAVIORS OF Costus Afar LEAVES EXTRACT ON SULPHUR REDUCING BACTERIA.</p>	