SCIENCEDOMAIN *international*
www.sciencedomain.org

SDI Review Form 1.6

Journal Name:	**International Research Journal of Pure and Applied Chemistry**
Manuscript Number:	**Ms_IRJPAC_37402**
Title of the Manuscript:	**COMPUTATIONAL CHEMISTRY STUDIES ON THE ADSORPTION/CORROSION INHIBITIVE POTENTIAL OF 2-(2-heptadecyl-4,5-dihydro-1H-imidazol-1-yl) ethan-1-ol) ON IRON SURFACE AT DIFFERENT TEMPERATURES**
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)

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		
Minor REVISION comments	The work presents a scientific interest confirmed by the study of corrosion inhibition of the iron surface by the adsorption process. The authors used the adequate molecular modeling tools to demonstrate this corrosion inhibition. Through their sufficient and relevant results, it's also important to point out that the interpretations and the conclusion are justified by the calculation data and are consistent with the objectives assigned for their work. However, I would have liked to see a consolidation of the corrosion inhibition results through an experimental cyclic voltammetry study, this last remarque is in no way diminishes the quality of this scientific work. The paper has been written adequately. However, the following remarks should be taken into consideration : 1-No other metal is available to replace iron in all its many applications (**line 25-26**). Reformulate this sentence since there are many composite materials that have properties and applications better than iron. (Nanomaterials-based composite) 2-It is necessary to add other determining parameters during the adsorption of the amine-nitrogen compounds on the iron surface (**line 33-34**) 3-The author must put the expression that calculates the adsorbate-adsorbent interaction energy during the absorption process (**line 190 see also table 1**). 4-Add the nature of physical or chemical adsorption in the **conclusion and abstract.** 5-The formulas (equations: 5 to 9) must be written by an equation editor	
Optional/General comments	**Update references**: Ref 28 and Ref 14 to18	

Reviewer Details:

Name:	***Labidi. Nouar sofiane***
Department, University & Country	***Chemistry Departement, University Centre Of Tamanrasset, Algeria***