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Journal Name:	British Journal of Applied Science & Technology
Manuscript Number:	2014_BJAST_9658
Title of the Manuscript:	CORROSION INHIBITION OF COPPER IN HYDROCHLORIC AND TETRAOXOSULPHATE (VI) SOLUTIONS USING ALOE VERA BARBADENSIS GEL.
Type of the Article	

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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		
Minor REVISION comments	Review CORROSION INHIBITION OF COPPER 1 IN HYDROCHLORIC AND TETRAOXOSULPHATE (VI) SOLUTIONS USING ALOE VERA BARBADENSIS GEL. The inhibition of corrosion of copper in hydrochloric acid and tetraoxosulphate (VI) acid solutions by Aloe Vera gel has been evaluated by the weight loss method. Inhibition efficiency increased with increase in concentration of the inhibitor system. As the temperature increased the inhibition efficiency decreased. The process follows first order kinetics, and obeys Langmuir adsorption Isotherm.	Has become "CORROSION INHIBITION OF COPPER 1 IN HYDROCHLORIC AND TETRAOXOSULPHATE (VI) ACID SOLUTIONS USING ALOE VERA BARBADENSIS GEL." The inhibition of corrosion of copper in hydrochloric acid and tetraoxosulphate (VI) acidsolutions by Aloe Vera gel has been evaluated by the weight loss method. Inhibition efficiency increased with increase in concentration of the inhibitor system. As the temperature increased the inhibition efficiency decreased. The process follows first order kinetics, and obeys Langmuir adsorption Isotherm. The composition of the active principle of Aloe Vera gel is given Has been replaced as recommended by



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	The composition of the active principle of Aloe Vera gel is given Electrochemical studies could have been done Surface analysis could have been done The following references may be included: Green inhibitors 1 .“Corrosion inhibition by caffeine-Mn²⁺ system”, Noreen Anthony, E. Malarvizhi, P. Maheshwari, Susai Rajendran and N. Palaniswamy, <i>Indian Journal of Chemical Technology</i>, Vol.11, 2004, pp.346-350. 1. .“Corrosion inhibition by the caffeine – Zn²⁺ system”. S. Rajendran, A. J. Amalraj, M.J. Joice, N. Anthony, D.C. Trivedi, M. Sundaravadivelu, <i>Corrosion Reviews</i>, Vol. 22 (3), 2004, pp. 233-248. 2. .“Corrosion inhibition by plant extracts - An overview”. S. Rajendran, V. Ganga Sri, J. Arockiaselvi, A. J. Amalraj, <i>Bulletin of Electrochemistry</i> ,Vol. 21 (8), 2005,	reviewer. No facilities on ground for Electrochemical studies and Surface analysis. Only weight loss is used. Thanks for the suggested references. I did not cite them and so can not use them for now. I will goggle them and use them in future. Thanks.
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	pp.367-377. 3. .“An eco friendly Corrosion inhibition for Aluminium”. S. Rajendran, S. Muthulakshmi, R. Rajeswari and A.Vijitha, <i>J. Electrochem Soc. India</i>, Vol 54(2), 2005, pp.50-52. 5 .“Corrosion behaviour of aluminium in rain water containing garlic extract”. S.L Priya, A. Chitra, S. Rajendran, and K. Anuradha, <i>Surface Engineering</i> ,Vol. 21 (3), 2005, pp. 229-231. 6. “Corrosion inhibition by an aqueous extract of rhizome powder”. S. Rajendran, S. Shanmugapriya, T. Rajalakshmi, A.J. Amal Raj, <i>Corrosion</i>, Vol. 61 (7), 2005, pp. 685-692. 7. “Corrosion inhibition of carbon steel in low chloride media by an aqueous extract of <i>Hibiscus rosasinensis</i> Linn”. K. Anuradha, R. vimala, B. Narayanasamy, J. Arockiaselvi and S. Rajendran ,<i>Chemical Engineering Communications</i> ,Vol.195 (3),2008, pp. 352-366. 8.“ Corrosion inhibition by beet root extract”. J.	
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	Arockia Selvi, V. Gangasree, S. Rajendran , <i>Portugaliae Electrochimica Acta</i>, Vol. 27(1),2008, pp.1-11. 9. <u>Corrosion behaviour of aluminium in the presence of an aqueous extract of Hibiscus rosa-sinensis</u>". S. Rajendran, J. Jeyasundari, J. Arockia Selvi, B. Narayanasamy, A.P.P Regis, P. Rengan, <i>Portugaliae Electrochimica Acta</i>, Vol.27 (2),2009, pp.153-164. 10.“Corrosion behaviour of metals in artificial saliva in presence of spirulina powder”. S. Rajendran, J. Paulraj, P. Rengan, J. Jeyasunbdari and M. Manivannan, <i>Journal of Dentistry And Oral Hygiene</i>, Vol.1(1),2009, pp1-8. 11.“Electroplating using environmental friendly garlic extract –A case study”. S. Rajendran and M. Manivannan, <i>Zastita Materijala</i>, Vol.50, 2009, broj 3, pp131-140. 12. “Corrosion inhibition by an aqueous extract of Henna Leaves (<i>Lawsonia inermis</i> L.)”S. Rajendran, M. Agasta, R. Bama Devi, B.Shyamala Devi, K. Rajam and J. Jayasundari, <i>Zastita Materijala</i>, Vol.50(2), 2009, pp77-84.	
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	13."Corrosion inhibition by Spirulina". S. Rajendran, P. Sumithira , B. Shyamala Devi and J .Jeyasundari, <i>Zastita Materijala</i>,Vol.50, broj 4, 2009, pp.223-226. 14."Corrosion behaviour of metals in artifical saliva in presence of D-Glucose". S. Rajendran,V. Uma, A. Krishnaveni, J. Jeyasundari, B.Shyamaladevi and M. Manivannan, <i>The Arabian Journal for Science and Engineering</i>, Vol. 34(2c), 2009, pp.47-158. 15."Evaluation of Co-inhibition characteristics of Caffeine-Zn²⁺ system in preventing carbon steel corrosion, Noreen Antony, H. Benita Sherine and S. Rajendran, <i>International Journal of Engg Science and Technology</i>,Vol.2(7), 2010, pp.2774-2782. 16."Corrosion inhibition by Spirulina". S. Rajendran, P. Sumithra, B. Shyamala Devi, J. Jeyasundari, <i>Zastita Materijala</i>,Vol.5, 2009, pp.223-226. 17."Green corrosion inhibitors -An overview". M. Sangeetha, S. Rajendran, T.S. Muthu Megala and K. Krishnaveni, <i>Zastita Materijala</i>,Vol.52, 2011, broj1,pp 35-19.	
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	18."Influence of garlic extract on the inhibition efficiency of tirsodium citrate - Zn^{2+} System".B.Syamala Devi, S. Rajendran, <i>International Journal of Chemical Science and Technology</i>,Vol.1(1),2011,pp.79-87. 19."Inhibition of mild steel corrosion sea water by "DAUCUS CAROTA" V.Sirbharathy,Susai Rajendran,J,Sathyabama,<i>International Journal of Chemical Science and Technology</i>,Vol.1,(3),July2011,pp.108-115. 20. "Corrosion inhibition by an Aqueous extract of phyllanthus Amarus", M.Sangeetha, S.Rajendran, J.SathiyaBama, A.Krishnaveni, P.Santhy, N.Manimaran, B.Shyamaladevi, <i>Portugaliae Electrochimica Acta</i>,2011, 29(6), pp.429-444. 21. "Eco friendly extract of banana peel as corrosion inhibitor for carbon steel in sea Water",Scholars Research Library,.Nat.Prod.Plant.Resour,M.Sangeetha, J.Sathyabama,S.Rajendran,P.Prabhakar, Vol.2(5),2012,pp.601-610. 22."Effect of henna (<i>Lawsonia inermis</i>) extract on	
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	electrodeposition of nickel From watts bath”,J.Felicita Florence , Susai Rajendran,K.V.Srinivasan, Electroplating & finising,Vol.31(7),2012,pp.1-4. 23.”Corrosion inhibition by green inhibitor:Sodium metavadate –Spirulina system” V.Sirbharathy and S.Rajendran, chemical science Review and Letters,Vol.1(1), 2012,pp.25-29. 24.Effect of Caffeine-Zn²⁺ System in Preventing Corrosion of Carbon Steel in Well Water K. Rajam,1 S. Rajendran,2, 3 and N. Nazeera Banu Hindawi Publishing Corporation Journal of Chemistry Volume 2013, Article ID 521951, 11 pages http://dx.doi.org/10.1155/2013/521951 25. Inhibitory Mechanism of Carbon Steel Corrosion in Sea Water by an Aqueous Extract of Henna Leaves V. Johnsirani,1 J. Sathiyabama,1 Susai Rajendran,1, 2 and A. Suriya Prabha3, International Scholarly Research Network ISRN Corrosion Volume 2012, Article ID 574321, 9 pages	
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	<u>doi:10.5402/2012/574321</u> 26. Cuminum cyminum Extracts as Eco-Friendly Corrosion Inhibitor For Mild Steel in Seawater V. Sribharathy¹ and Susai Rajendran², International Scholarly Research Network ISRN Corrosion, Volume 2012, Article ID 370802, 7 pages, doi:10.5402/2012/370802 The paper may be accepted for publication after minor revision yes	
<u>Optional/General</u> comments		