#### SCIENCEDOMAIN international www.sciencedomain.org



# SDI FINAL EVALUATION FORM 1.1

## PART 1:

Journal Name:	Asian Journal of Applied Chemistry Research	
Manuscript Number:	Ms_AJACR_42725	
Title of the Manuscript:	Inhibition of Mild Steel Corrosion in Acidic Medium by Telfairia occidentalis Rind Extract	
Type of Article:	Original Research Article	

### PART 2:

ARTZ.	
NAL EVALUATOR'S comments on revised paper (if any)	Authors' response to final evaluator's comments
prrosion rate expressed in mmy <sup>-1</sup> was calculated from weight loss measurements a	
ccentage of inhibition efficiency was calculated from the corrosion rate value	
quations 1 and 2 establish the relation between rate of corrosion and inhibition efficien	cy
th the weight loss of metal specimens.	
ate of corrosion W = Kxwbless in grems Area in sg.om xtime in Hrs xDensity (1)	
here 'K' =87600 (This is a factor used to convert cm/hour into mm/year), density of N	IS
ecimen= 7.88g/cc	
ercentage of inhibition or the inhibition efficiency $(\eta)$ is given by	
$=\frac{W-W}{W}\times100$ (2)	
<ul> <li>w &amp; W' are the corrosion rates of the metal specimen in the absence a esence of the inhibitor respectively.</li> <li>the first review comment, since the corrosion rates are expressed in mmy<sup>-1</sup>, t instants K and density compulsorily taken for calculation. In that sense the equation provide the coupons have same dimensions, the inhibition efficiency can be calculated for eight loss studies. In that sense authors are correct.</li> <li>uthors Comment:</li> <li>ne extract, being in paste form, can be weighed to prepare the extract concentrations in L, which is mass concentration. The concentrations are not given in moles/L, which is oblar concentration, since the molar mass of the extract is not known.</li> <li>or plotting the adsorption isotherm the concentration expressed in g/L. Then how ΔG<sup>o</sup> lue expressed in kJ mol<sup>-1</sup>? (Molar mass of the extract is not known). Clarify.</li> </ul>	The unit of $\Delta G^{o}_{arts}$ expressed in kJ mol <sup>-1</sup> in the manuscript is correct.



# SCIENCEDOMAIN international

www.sciencedomain.org

**SDI FINAL EVALUATION FORM 1.1**