



SDI Review Form 1.6

PART 1:

Journal Name:	<u>International Research Journal of Pure and Applied Chemistry</u>
Manuscript Number:	2013_IRJPAC_5355
Title of the Manuscript:	Azamacrocyclic Complexes: Synthesis and Xanthine Oxidase and Antioxidant Activity
Type of the Article	Research Paper

General guideline for Peer Review process is available in this link:

[\(http://www.sciencedomain.org/page.php?id=sdi-general-editorial-policy#Peer-Review-Guideline\)](http://www.sciencedomain.org/page.php?id=sdi-general-editorial-policy#Peer-Review-Guideline)

- This form has total 7 parts. Kindly note that you should use all the parts of this review form.



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PART 2: 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	This manuscript describes synthesis of macrocyclic metal complexes containing phenylene bridges and their biological activities. Among the four synthesized complexes (3a-m20 3d), 3d exhibited 83.2% of XO inhibition and also showed potent antioxidant activity. The manuscript contains several spelling and grammatical errors and it is difficult to follow. I will introduce several specific points below: For example; 1. The 1.00 g, 0.0061 mol and 20 cm³ should be changed as 1.00 g, 6.10 mmol and 20 mL. (page 5, line 99). All experimental data should be corrected like this. 2. Cacl₂ should be corrected as CaCl₂ (Page 5, line 105). 3. Chemical shift (δ, ppm) should be given in experimental section after ¹H NMR data. 4. Coupling constant values (J in Hertz), where necessary, should be calculated. 5. The results of elemental analysis should be given 47.47 instead of 47.473. The elemental analysis data must be corrected as above. 6. In the page 13, Fig. 1, X should be NO₃. 7. In the Result and Discussion section "band" should be "bond".	Thanks for reviewing our article and suggesting the changes. 1. In experimental data all the values are changed to mmol and mL. 2. Cacl₂ is corrected as CaCl₂ in page 5. 3. Chemical shift (δ, ppm) is added in experimental section after ¹H NMR data. 4. Coupling constant values (J in Hertz), are calculated. 5. As per your suggestions the values are corrected to two decimals. 6. In the page 13, Fig. 1, X is corrected as NO₃. 7. In the Result and Discussion section "band" is related to IR spectroscopy.



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<u>inOptional/General</u> comments		
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