



**SDI Review Form 1.6**

Journal Name:	<a href="#">Asian Journal of Chemical Sciences</a>
Manuscript Number:	Ms_AJOCS_48032
Title of the Manuscript:	Synthesis, Characterization and Antimicrobial Activity of Metal Complexes of N-(4-methoxybenzylidene) isonicotinohydrazone Schiff base
Type of the Article	Original research papers

**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>)



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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)
<b>Compulsory</b> REVISION comments	<p>Similar work is known in the literature, see the following paper, hence the novelty level of this work is low World Journal of Pharmaceutical Research 2016, 5, 1153-1161 However, the Cu complex was not explored in the previous study and hence the current work may be published after some revision The above mentioned paper must be cited and commented in the text, please highlight the novelty and importance of your work with respect to the previous work. What advantages your work has? Antimicrobial assay: the concentration of standard compound, test ligand and complexes used must be mentioned. Why only two strains were used? Conclusion: rewrite the sentence as “.....all metal complexes show better antibacterial activity than ligand.”</p>	<p><b>R. Comment:</b> Similar work is known in the literature, see the following paper, hence the novelty level of this work is low (World Journal of Pharmaceutical Research 2016, 5, 1153-1161). However, the Cu complex was not explored in the previous study and hence the current work may be published after some revision The above mentioned paper must be cited and commented in the text, please highlight the novelty and importance of your work with respect to the previous work. What advantages your work has?</p> <p><b>Answer:</b> Thanks a lot for your comments. We have read the above article very carefully. Three new complexes of Ni(II), Zn(II) and Co(II) with the ligand N-(4-methoxybenzylidene)isonicotinohydrazide, having the formula <math>[M((LA))(ac)_2]xH_2O</math> (M = Ni(II), Zn(II) and Co(II)) with their antibacterial properties have recently been reported by G.S. Kulkarni. The result indicates that in all complexes, ligand was coordinated to metal via N and O donor atoms. On the other hand, <math>CH_3COO^-</math> satisfied the remaining coordination numbers as well as oxidation states of metal ions. Therefore, all obtained compounds were neutral with octahedral geometry. <b>Our obtained result is totally different. We proposed square planar geometry of our prepared complexes on the basis of some physical and chemical properties.</b> The measurement of molar conductivity at <math>10^{-3}</math> M concentration carried out in DMSO at room temperature. The molar conductivity values show that the nitrate complexes were 1:2 electrolytes whereas all reported octahedral complexes are non-electrolytes. <b>Antimicrobial assay: the concentration of standard compound, test ligand and complexes used must be mentioned. Why only two strains were used?</b> Ans: Concentrations of standard compound, test ligand and complexes have been mentioned in the manuscript. Antibacterial activity of our synthesized complexes was done in the Department of Pharmacy, University of Rajshahi, Bangladesh</p>
<b>Minor</b> REVISION comments	The source of <i>Escherichia coli</i> ( <i>E. coli</i> ) and <i>Bacillus Cereus</i> ( <i>B. cereus</i> ) strains should be mentioned in the experimental section.	All the human pathogenic bacteria experimented were obtained from Department of Pharmacy, University of Rajshahi, Bangladesh.
<b>Optional/General</b> comments		

**PART 2:**

	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)
Are there ethical issues in this manuscript?	<u>(If yes, Kindly please write down the ethical issues here in details)</u>	