

Review Form 3

Journal Name:	International Research Journal of Pure and Applied Chemistry
Manuscript Number:	Ms_IRJPAC_127051
Title of the Manuscript:	Eco-friendly Synthesis, Characterization, and Antimicrobial Evaluation of Transition Metal (II) Complexes with Thiophene-Derived Tridentate (S N N donor) Heterocyclic Schiff base Ligand
Type of the Article	

PART 1: Review Comments

Compulsory REVISION comments	Reviewer's comment	Author's Feedback (Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
Please write a few sentences regarding the importance of this manuscript for the scientific community. Why do you like (or dislike) this manuscript? A minimum of 3-4 sentences may be required for this part.	The manuscript offers significant value to the scientific community by presenting an eco-friendly approach to developing small molecules. The type of ligands presented in the work are of interest due to their versatile coordination behavior, which influences the stability, reactivity, and biological properties of the synthesized complexes. Finally, the study's emphasis on green synthesis aligns with the growing demand for environmentally benign methods in coordination chemistry.	
Is the title of the article suitable? (If not please suggest an alternative title)	The title is Ok	
Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here.	The abstract is adequately written.	
Are subsections and structure of the manuscript appropriate?	Yes	
Please write a few sentences regarding the scientific correctness of this manuscript. Why do you think that this manuscript is scientifically robust and technically sound? A minimum of 3-4 sentences may be required for this part.	<ol style="list-style-type: none">1. The claim that the ligand coordinate in SNN tridentate fashion may not be true except supported by a single crystal structure. This is because the imine nitrogen will be sterically hindered if the N on the diazol and the S on the thiazol are coordinated as proposed.2. The proposed six-coordinate geometry around the metal centers may be true for the cobalt complex, however, six-coordinate octahedral complexes of this type with copper and nickel complexes are rare.3. No NMR results for the complexes. Why?	
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.	Yes	
Minor REVISION comments		
Is the language/English quality of the article suitable for scholarly communications?	Yes	
Optional/General comments		

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PART 2:

	Reviewer's comment	Author's comment <i>(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)</i>
Are there ethical issues in this manuscript?	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

Reviewer Details:

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