## Review Form 3

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| Journal Name: | **Chemical Science International Journal** |
| Manuscript Number: | **Ms_CSIJ_123016** |
| Title of the Manuscript: | **Heterocyclic Schiff base Complexes of Bivalent Transition Metals: Microwave-Assisted Green Synthesis, Structure Elucidation and Antimicrobial Studies** |
| Type of the Article | |

## Review Form 3

**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)* |
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| **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.** | **It is important manuscript subject including synthesis of new hetrocyclic three dentate ligand, which can be coordinate with divalent ions to produce new metallic complexes using green and economic synthetic procedure. These complexes have good antimicrobial activities.** | |
| **Is the title of the article suitable?<br>(If not please suggest an alternative title)** | **Yes.** | |
| **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.** | **No, your manuscript include integrated work, therefore it is important to focus on all details in abstract by:<br>- including high product yield% because of using your proposed synthetic method.<br>-list values of MIC of all complexes or the best result of them against selected bacteria and fungi.** | |
| **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.** | **Author performed a valuable work. Research subject includes a promising synthetic method for new ligand and its active antimicrobial complexes. All results were introduced in organized structure, appropriated subsections and logical reasons in scientific discussion.** | |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.** | **Yes.** | |

## Review Form 3

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| Minor REVISION comments<br><br>**Is the language/English quality of the article suitable for scholarly communications?** | **Yes, manuscript language is simple, scientific and understandable.**<br>**Author work is valuable work included considerable procedure to synthesize new ligand and its promised metallic complexes, in addition to essential identification techniques with good results and comprehensive explanations. To make your work takes more attention, I suggest you to:**<br>**-rewrite abstract to include all other result such as MIC of complexes and name of selected microbes, product yield% of your green synthetic process with referring to considerable increasing in comparison with the conventional methods.**<br>**-if available, add IR charts of new ligand and its complexes to enrich your v. good explanation of IR bands appearance and shifting.**<br>**-in table 3, add wave length (in nm units) of electronic transition bands in addition to wave no. in $cm^{-1}$ unit because uv-vissiable spectrum is commonly to be in nm unit.**<br>**-add uv-vissiable spectrum of ligand and its complexes to enhance your results.**<br>**-cite references for synthetic procedure conditions of pH and ethanolic KOH concentration. If author optimized synthesis conditions, author should declare experimental conditions before reaching the optimum conditions.**<br>**-include procedure to prepare series solutions (with different concentrations by dilution) of ligand and its complexes to determine MIC for each of them.**<br>**-if available add table of antimicrobial inhibition activity (as inhibition diameter in mm) in addition to figure of inhibition activity petri dish image.**<br>**-correct the highlighted sentences in the original manuscript, which attached with e-mail message.**<br>**-unify a writing method of references because some of them were written without researches titles.** | |
| **Optional/General** 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?** | *(If yes, Kindly please write down the ethical issues here in details)* | |

**Reviewer Details:**

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|---|---|
| Name: | **Suhair M. Yaseen** |
| Department, University & Country | **Middle Technical University, Iraq** |