

## Review Form 1.7

Journal Name:	<a href="#">International Research Journal of Pure and Applied Chemistry</a>
Manuscript Number:	Ms_IRJPAC_104903
Title of the Manuscript:	Synthesis of mono and bis-substituted compounds 1-(2-hydroxybenzylidene)carbonohydrazide and 1,5-bis(2-hydroxybenzaldehyde)carbohydrazone : Study spectroscopy and X-ray diffraction
Type of the Article	Original Research Article

### **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:

(<https://www.journalirpac.com/index.php/IRJPAC/editorial-policy> )

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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)
<p><b>Compulsory REVISION comments</b></p> <ol style="list-style-type: none"> <li>1. <b>Is the manuscript important for scientific community?</b> (Please write few sentences on this manuscript)</li> <li>2. <b>Is the title of the article suitable?</b> (If not please suggest an alternative title)</li> <li>3. <b>Is the abstract of the article comprehensive?</b></li> <li>4. <b>Are subsections and structure of the manuscript appropriate?</b></li> <li>5. <b>Do you think the manuscript is scientifically correct?</b></li> <li>6. <b>Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form.</b></li> </ol> <p><u>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</u></p>	<p><b>Yes, by solving, refining and depositing in the related database the crystal structure of new couple of compounds.</b></p> <p><b>Yes.</b></p> <p><b>Yes, with some errors to be corrected.</b></p> <p><b>Yes.</b></p> <p><b>Yes.</b></p> <p><b>Yes.</b></p> <p><b>1- "XRD" must be corrected by "SCXRD" in the hole of the document.</b></p> <p><b>2- Further details related to the X-ray diffraction experiment must be added.</b></p> <p><b>3- The deposit checkcif file results contain some missing serious alerts (A B &amp; C).</b></p> <p><b>4- The asymmetric space group (C 2 2 21) must be confirmed to explain the ambiguous Flack test results.</b></p> <p><b>5- The obtained serious alerts in both checkcif must be eliminated, explained or justified in particular the Short Inter D-H..H-D.</b></p> <p><b>6- In the ABSTRACT:</b> Line 3 "compound" must be corrected by "compounds". Line 6 "<b>X-ray diffraction</b>" must be corrected by "Single crystal <b>X-ray diffraction</b>".</p> <p><b>7- The list of numerical values in both sections 2.2 &amp; 2.3 must be summarized in a couple of tables.</b></p> <p><b>8- Figure 2. and Figure 4. labelled "ORTEP view..." (Oak Ridge Thermal Ellipsoid Plot) are not representing the respective atomic thermal ellipsoids. Both figure must be changed. The new ones must contain the respective atomic thermal ellipsoid plot.</b></p> <p><b>9- As is, the work is limited to the synthesis, the structural investigations and useless spectroscopic study (since the structures are completely solved and refined) of a couple of compounds. It would be recommended to add some useful experiments like the thermal analysis (ATD/ATG) to confirm the presence of the water molecule, the measure of several thermodynamic values and detect eventual phase transitions.</b></p> <p><b>10- The work can be enriched by biological studies like viral activity as it was announced in the introduction.</b></p> <p><b>11- The reference list contains 51 items:</b></p> <ul style="list-style-type: none"> <li>• The 26 is present in the list but not cited in the text.</li> <li>• The 52, 53, 54 are cited in the text but absent form the list.</li> </ul> <p><b>12- A second lecture of the manuscript is recommended to correct the frequent typo errors and some special characters.</b></p>	

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<b>Minor</b> REVISION comments 1. <b>Is language/English quality of the article suitable for scholarly communications?</b>		
<b>Optional/General</b> comments		

**PART 2:**

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

**Reviewer Details:**

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