



SDI Review Form 1.6

PART 1:

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| Journal Name: | Physical Review & Research International |
| Manuscript Number: | MS: 2012_PRR1_2931 |
| Title of the Manuscript: | Synthesis, X-ray Crystallographic Studies and Antibacterial Screening of 1-(5-(4-Chlorophenyl)thiazol-2-yl)hydrazine hydrobromide |

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>)

- This form has total 9 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) |
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| Compulsory REVISION comments | <p>This article by Imtiaz Khan et al reports the synthesis and crystal structure of a single compound</p> <p>In the title “spectroscopic characterization”, should be omitted as these are the usual characterization techniques needed to report any new compound</p> <p>The chemistry is very simple and of graduate practical level and well known</p> <p>The MS contains grammatical, syntax and technical errors ; some of the phrases make no sense and there are repetitions e.g.</p> <p>line 12 was achieved in a single step reaction by condensation</p> <p>should be was achieved in a single step by condensation</p> <p>Also this is a known one step conversion and should not be emphasized too much</p> | <p>“Spectroscopic characterization” has been removed in the title.</p> <p>Although the chemistry is simple, the thiazole derivative is new and not reported before.</p> <p>The WHOLE manuscript has been revised carefully to avoid any grammatical, syntax and technical errors.</p> <p>The required correction has been made.</p> |



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| | <p>line 33</p> <p>The recent literature [11-15] has been investigated for their considerable antimicrobial activity Should be In the recent literature [11-15] their considerable antimicrobial activity against a variety of clinically vital fungal strain has been investigated.</p> <p>line 59</p> <p>4-Chlorophenacyl bromide (1) (1 mmol) and thiosemicarbazide (2) (1 mmol) in ethanol... volume must be mentioned</p> <p>line 60</p> <p>refluxed for 30 min. The excess solvent was removed under pressure on rotary evaporator. Should be</p> <p>60 refluxed for 30 min. The excess solvent was removed under reduced pressure on a rotary evaporator.</p> <p>line145</p> <p>147 good yield. The compound 3 was fully characterized by analytical and spectral data. Please delete this line (see above)</p> | <p>The required correction has been made in MS.</p> <p>The required “volume” has been inserted in the text.</p> <p>The said correction has been made accordingly.</p> <p>The required change has been made in MS.</p> |
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| | <p>147 In general, In general should be deleted, Makes no sense as there is only one compound being discussed</p> <p>148 The disappearance of methylene stretching frequency around 3000 cm-</p> <p>The disappearance of methylene stretching (found in one of the reactants 1) frequency around 3000 cm.....</p> <p>line 154 ¹³C NMR spectrum and the signals appeared in the spectrum account for all the C-atoms present in the compound.....assignments should be made instead of statement</p> <p>lines 161-162 Experimental details are given in Table 1, while atomic coordinates with equivalent isotropic 161 temperature factors are presented in Table 2. Selected bond distances, angles and dihedral angles are given in Table 3, while H-bond geometries are tabulated in Table 4.</p> <p>It has already been summarized in the abstract, no need for tables 1-3; should be deleted to save the</p> | <p>“In general” has been deleted.</p> <p>The said correction has been made.</p> <p>Assignment for carbon signals has been made.</p> <p>The tables 1-3 have been deleted from the text and moved to supporting information.</p> |
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| | <p>journal's precious pages</p> <p>The details of bacterial strains (The American Type Culture Collection (ATCC)) used for antibacterial activity should be given. Also where these bioassay was carried out must be mentioned</p> <p>The paper may be accepted after corrections/clarification of these points</p> | <p>The fresh inoculums of the mentioned bacteria have been prepared at COMSATS institute and antibacterial activity is determined by using Mueller Hinton Agar.</p> |
| <u>Minor</u> REVISION comments | | |
| <u>Optional/General</u> comments | | |