



SDI Review Form 1.6

Journal Name:	Asian Journal of Physical and Chemical Sciences
Manuscript Number:	Ms_AJOPACS_40562
Title of the Manuscript:	Green Chemistry Approach for Synthesis of Bioactive 2-Thiobarbituric Acid Derivatives
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:

(<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)
Compulsory REVISION comments		
Minor REVISION comments	<p>The paper titled “Green Chemistry Approach for Synthesis of Bioactive 2-Thiobarbituric Acid Derivatives” described synthesis of five derivatives of 2-thiobarbituric acid under microwave irradiation (MWI) and investigate their biological activities. The following comments should be considered before the final decision made.</p> <ol style="list-style-type: none"> 1. Manuscript must undergo significant proofreading and editing. There are many incorrect sentences. 2. The introduction part of manuscript has deficiency citation and author should cite the latest references relevant to microwave works like Ajmal R. Bhat et. al. <i>Journal of Advanced Research</i>, (2015) 6, 941–948. 3. Authors should mention aqueous ethanol as solvent at line no13 & 19 instead of 25 ml rectified spirit and 25 ml water 4. Please justify the role of solvent in Mw synthesis 5. Why authors should not try to synthesis of Bioactive 2-Thiobarbituric Acid Derivatives reaction under Mw without catalyst as this is simple reaction. 6. The authors should characterize the synthesised compounds by means of ¹³CNMR & Mass spectroscopic analysis. 7. Authors should correlate the chemistry of electron donating and withdrawing groups with grame positive and negative strains. 8. The authors should make/prepare a table which shows high light the comparision of reported work and present work. 9. Authors should mention in Manuscript the mechanism for synthesis of targeted derivative. 10. Why authors select only Ketoconazole & Kanamycin as reference strains. 	<ol style="list-style-type: none"> 1. We have already made the necessary corrections. 2. The introduction part has 9 citation with some latest references such as Indian J Chem Tech. 2016; 23: 462-68. 3. We made the correction in the manuscript. 4. Polar solvent was used in our experiments because they interact very differently and work well with microwaves due to their diverse polar and ionic properties. 5. Next time we will try the Mw reaction without catalyst. 6. We didnot use ¹³CNMR & Mass spectroscopic analysis because this is known compounds. We have also lack of instrumental facilities. 7. We have shownen the correlation in the manuscript. 8. We didnot find any repoted work as we did. 9. The mechanism is written in the manuscript (Page 3, line 19). 10. We have only Ketoconazole & Kanamycin in our lab as well as we have not enogh fund to buy more chemicals.
Optional/General comments	The authors should modify the manuscript taking account all the points raised by the reviewers. There is improvement in the quality of the paper and may be accepted for publication after response of the comments.	