

## Review Form 1.6

Journal Name:	<a href="#">Physical Science International Journal</a>
Manuscript Number:	Ms_PSIJ_84593
Title of the Manuscript:	Review and synthesis of literature on single and multizone thermodynamic combustion in a diesel engine
Type of the 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.journalpsij.com/index.php/PSIJ/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)
<b>Compulsory</b> REVISION comments	<p>i) There are large number of grammatical errors in the manuscript. Need to be revised thoroughly with spellcheck tool and with the help of an English expert.</p> <p>ii) Section 7: Thermodynamic models; No references given in this section for the discussion on mathematical, phenomenological and thermodynamic models. References must be added.</p> <p>iii) Section 7.1; no reference given for equation E-1, E-2, E-3 and E-4; references must be added.</p> <p>iv) Section 7.1; In equation E-1, E-2, E-3 &amp; E-4; different parameters are given in italics, whereas, in text mostly these parameters are given in regular font and with incorrect use of dot symbol at several places. Also, required subscripts are missing in text when compared with the equations. In text all parameters should be changed to italics and should be identical to as shown in different equations.</p> <p>v) Section 7.2, first line, "The shortcomings encountered with single zone models can be partially overcome by the use of multi-zone models." Here first author should discuss shortcomings of single zone models.</p> <p>vi) Section 7.2, In equations E-5, E-6, E-7, E-8 and E-9, different parameters are given in italics, whereas, in text mostly these parameters are given in regular font. Also, required subscripts are missing in text when compared with the equations. In text all these parameters should be changed to italics and should be identical to as shown in different equations.</p> <p>vii) Fig. 1, Fig. 2, Fig. 3, Fig. 4 and Fig. 5 are just cut &amp; paste from previous references and author has not made any efforts to edit them/improve their formatting to enable publishable quality. These figures need to be formatted well so that they should be of publishable quality.</p> <p>viii) Table 1 needs to be reformatted</p> <p>ix) Table 1 shows 1 zone, 2 zone 3 zone and multiple zones in column 1, but in the text only 1 zone and multi-zone models are discussed.</p> <p>x) Section 8. Conclusions should be corrected to "9. Conclusions"</p>	
<b>Minor</b> REVISION comments	NIL	
<b>Optional/General</b> comments	The author needs to revise the manuscript thoroughly as per the suggestions given above.	

### 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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