Review Form 1.7

Journal Name:	**Journal of Engineering Research and Reports**
Manuscript Number:	**Ms_JERR_98645**
Title of the Manuscript:	**DESIGN AND IMPLEMENTATION OF OPTIMIZED CONTROLLER FOR E-VEHICLES**
Type of the Article	**Original Research Article**

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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.
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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 **1. Is the manuscript important for scientific community?** (Please write few sentences on this manuscript) **2. Is the title of the article suitable?** (If not please suggest an alternative title) **3. Is the abstract of the article comprehensive?** **4. Are subsections and structure of the manuscript appropriate?** **5. Do you think the manuscript is scientifically correct?** **6. Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form.** **(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)**	**Yes** **Yes** **Yes** **Yes** **To a certain level** **yes**	
Minor REVISION comments **1. Is language/English quality of the article suitable for scholarly communications?**	Yes	
Optional/General comments	Major revision is required 1. The meaning of the first sentence in Abstract is incorrect There is a shortage of fossil fuels, and air pollution due to CO2 emissions from internal combustion engines is harmful to the environment. rewrite this. 2. In Introduction the order of citing the articles has to be done in ascending order, started with reference 4 in third paragraph and fourth paragraph with reference 28.. 3.The inputs to a controller to be from accelerator and brake, which is missing in figure 1 4.Design parameters and equation (3) and Table shows C1 is 4700uF which is 4.7 nF but in figure 2 it is shown as 47nF 5. Mathematical expression for C2 = 1mF is not shown 6.Table 1 shows the switching frequency as 3.7 kHz and capacitors are designed based on this value, where as in section 5 it is shown as 300 to 10.5 kHz, there will an effect on capacitance values when frequency increases beyond 3.7 kHz 7. Information related to different values of R= 1k and 5.5K and switching frequency variation in each case is not explained 8. Table 2 and table 3, none of the capacitances are matching with designed values. Design is done for one value and switching frequency analysis is done for some other value of capacitance 9.simulation has to be performed shown in figure2, but simulation is performed in different circuit shown in figure 4 10. Figure 5, X and Y axis labelling is missing and units are not shown 11.Figure 12 experimental results should match with any one of the values shown table-4 for doing comparison analysis 12. Under no load condition and loaded condition, method of changing the speed and the obtaining the torque values are not shown 13. rated speed of the motor is not specified 14. under loaded condition the speed cannot fall down from 350 to 180 rpm, there is lot of drooping characteristics in speed 15. The results are not compared with an existing controller to prove the proposed method is better	

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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:

Name:	**Madhu Palati**
Department, University & Country	**BMS Institute of Technology and Management, India**