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| Book Name: | [Engineering Research: Perspectives on Recent Advances](https://www.bookpi.org/bookstore/product/engineering-research-perspectives-on-recent-advances-vol-1/) |
| Manuscript Number: | **Ms\_BPR\_4178** |
| Title of the Manuscript: | **Revamp of Diesel LHD to Battery LHD for Minimising Operational Cost in Underground Metal Mines** |
| Type of the Article | **Book chapter** |

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| PART 1: Comments | | |
|  | Reviewer’s comment | Author’s Feedback *(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)* |
| **Please write a few sentences regarding the importance of this manuscript for the scientific community. A minimum of 3-4 sentences may be required for this part.** | **Transitioning from non-renewal fossil fuels to renewal energy sources is important given the massive environmental footprint of the mining industry. Moreover, transitioning to electricity would be a huge benefit to protecting the health of mining workers by eliminating or reducing their exposure to particulate matter.** |  |
| **Is the title of the article suitable?**  **(If not please suggest an alternative title)** | **Based on the papers current content, the title is not suitable. It should be revised to account for improved environmental conditions.**  Here is what I would suggest: Revamp of Diesel LHD to Battery LHD for Minimising Operational Cost and Improving Environmental Conditions in Underground Metal Mines. |  |
| Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here. | **If the author(s) choos not to expand the paper to cover capital outlay and lifespan issues, those limitations should be reflected in the Abstract.** |  |
| **Is the manuscript scientifically, correct? Please write here.** | **I can not vouch for the accuracy of the calculations, but the premise is sound.** |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.**  **-** |  |  |
| Is the language/English quality of the article suitable for scholarly communications? | It is unclear as to who the paper is directed at. Is the readership restricted to India? If not, then a column should be added to Table 4, with the currency expressed in US dollars. This would broaden the audience for the paper, and make the cost savings more understandable to a much larger audience. |  |
| Optional/General comments | While the paper focuses on a comparative analysis of operating costs of Load-haul-dump (LHD) powered by deisel and electricity (battery), it does not address the differences in capital outlay and lifespan of each type of LHD. These are critical factors of financial feasibility that every mining operator would take into account. The paper states that “There are currently no legislative restrictions on the amount of DPM that can be present in underground mines in Western Australia”.What is the relevance of this statement, as the paper appears to focus on mining operations in India? Is there some standard applied in another jurisdiction that should be applied to underground mining in India to provide context and comparison?  With the suggested changes and edits the paper can be made suitable for publication in the journal. |  |

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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)* |  |

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| **Reviewer Details:** | |
| Name: | **Tony Sevelka** |
| Department, University & Country | **Canada** |