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| Journal Name: | [**Journal of Materials Science Research and Reviews**](https://journaljmsrr.com/index.php/JMSRR) |
| Manuscript Number: | **Ms\_JMSRR\_137397** |
| Title of the Manuscript: | **ASSESSMENT OF PRIVATE SECTOR PARTICIPATION IN SANITARY DISPOSAL OF REFUSE AMONG THE INHABITANTS OF OLORUNDA LOCAL GOVERNMENT AREA OF OSUN STATE** |
| Type of the Article | **Research Article** |

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| **PART 1: Comments** |
|  | **Reviewer’s comment****Artificial Intelligence (AI) generated or assisted review comments are strictly prohibited during peer review.** | **Author’s Feedback** (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.** | 1. This study addressed the assessment of private sector participation in sanitary disposal of refuse among the inhabitants of Olorunda Local Government Area of Osun State.
2. The findings revealed that 40.8% of the respondents claimed that the registered private sector practitioners were regular and adequate in the collection and sanitary disposal of refuse, while 31% of the respondents who engaged them were satisfied with their methods of refuse disposal.
3. 74% of respondents believed that involvement of private sector participation in integrated Waste Management would help solve the problem of the municipal waste crisis.
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| **Is the title of the article suitable?****(If not please suggest an alternative title)** | Yes, the title is okay**.** |  |
| **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.** | The abstract of the article is comprehensive. |  |
| **Is the manuscript scientifically, correct? Please write here.** | The manuscript is scientifically correct. |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.** | There are inconsistencies in the references, as some include DOI numbers, while others do not. Kindly ensure uniformity. The references are up to date; however, additional references could be included to enhance the work further. |  |
| **Is the language/English quality of the article suitable for scholarly communications?** | There are some grammatical issues throughout the manuscript, which should be carefully proofread. |  |
| **Optional/General** comments | 1. It is recommended that, immediately after the abstract, about 4-8 keywords should be given, but the author did not provide this information.
2. The introduction mainly focused on the issues related to waste management and their effects on health and the environment, and did not fairly present the idea of private sector engagement. It may be helpful to briefly outline the reasons for evaluating private sector involvement in addressing problems. This is the central idea of private sector participation in this study.
3. Furthermore, highlighting some local waste management regulations or initiatives in Osun State or Nigeria might set the scene that emphasizes the need for private sector involvement in this study.
4. The methodology lacks clarity and can be improved. Though the simple random sampling method is described, not enough information is given on the way the choice was made. For instance, was there any consideration made, such as age, gender, socioeconomic level, during the simple random sampling? Was there any division of the Local Government region of Osun State made to include all representation to avoid bias in data collection?
5. In Table 7, the percentage of persons per household above 6 was 15.7%, but it was reported in the table description as 28.7%. Kindly give clarity on the information.
6. There are inconsistencies in the table caption. Some of the captions are with capital letters for the first words, and others are not. Kindly correct them.
7. There is no comparison of the private sector services to those of the existing services to determine which service is better. So, it is challenging to recommend engaging the private sector in this area.
8. The author did not provide details of the cost of service to be provided by the private sector, and whether community members will be ready to pay for the services.
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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:**

**Justice Annor Asare, Central South University, China**