

## Review Form 1.7

Journal Name:	<b>Journal of Engineering Research and Reports</b>
Manuscript Number:	<b>Ms_JERR_103512</b>
Title of the Manuscript:	<b>Using Exploratory Factor Analysis Technique for Establishing Barriers to Total Quality Management Implementation in the Construction Industry</b>
Type of the Article	<b>Original Research Article</b>

### **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.journaljerr.com/index.php/JERR/editorial-policy> )

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**PART 1: Review Comments**

	<b>Reviewer's comment</b>	<b>Author's comment</b> <i>(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)</i>
<p><b><u>Compulsory</u> REVISION comments</b></p> <p><b>1. Is the manuscript important for scientific community?</b> (Please write few sentences on this manuscript)</p> <p><b>2. Is the title of the article suitable?</b> (If not please suggest an alternative title)</p> <p><b>3. Is the abstract of the article comprehensive?</b></p> <p><b>4. Are subsections and structure of the manuscript appropriate?</b></p> <p><b>5. Do you think the manuscript is scientifically correct?</b></p>	<p>The manuscript tackles Total Quality Management (TQM) implementation barriers in the construction industry, which is a significant subject within the fields of management studies and construction engineering. Understanding these barriers can aid in formulating strategies to facilitate and enhance TQM practices, thereby improving efficiency, success, and quality of projects. Therefore, it has potential value for both academic research and practical applications</p> <p><u>Research paper title has to be rephrased as below:</u></p> <p>Identify Obstacles in Implementing Total Quality Management framework in the Construction Sector using Exploring Factors Analysis Technique</p> <p><u>The abstract could benefit from more specific details to ensure it provides a comprehensive snapshot of the entire study. The abstract provided a general overview of the research but missed some important details, such as:</u></p> <p>1. Research Methodology: While it mentioned a quantitative approach and that questionnaires were used, the specific statistical tests applied were only briefly touched on. More detail on the sampling method and data analysis techniques (such as Exploratory Factor Analysis) would have been useful in the abstract.</p> <p>2. Study Population: There is a lack of detail about the demographic and professional background of the study participants, such as their roles in the construction industry and their level of experience with TQM.</p> <p>3. Results: Although it outlined the discovery of sixteen barriers to TQM implementation, the abstract could provide more specificity about a few of the most significant findings or trends.</p> <p>4. Conclusion and Implications: While the objective of identifying barriers to successful TQM implementation is stated, further discussion on the implications of these findings, the practical applications, or suggestions for future research would give a more complete picture in the abstract</p> <p>From the information available, the paper seems to be structured appropriately according to most academic standards, consisting of sections such as methodology, results and discussion, and providing insights into the data analyzed, the methods used, and the interpretation of the findings.</p> <p>From the excerpts provided, the manuscript appears to follow scientific rules and employs suitable statistical analyses including the Kaiser-Meyer-Olkin (KMO) measure, Bartlett's Test of Sphericity, and Cronbach's Alpha for internal consistency verification. The threshold values used for factor loadings, KMO, and Cronbach's Alpha are well established in the literature, suggesting the authors have competently applied these tests.</p> <p>the topic revolves around Total Quality Management in construction, potentially valuable sources could include more recent papers or relevant industry reports, to showcase the latest trends and applications of TQM in the construction industry.</p>	

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<p>6. Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form.</p> <p><b><u>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</u></b></p>		
<p><b><u>Minor</u></b> REVISION comments</p> <p>1. Is language/English quality of the article suitable for scholarly communications?</p>	<p>The manuscript's language quality appears to be suitable for scholarly communication based on the provided excerpts. The writing is generally clear, avoiding overly complicated phrasing or unnecessary jargon.</p>	
<p><b><u>Optional/General</u></b> comments</p>	<p>Here are some suggestions for improving the research:</p> <ol style="list-style-type: none"> <li>1. Larger Sample Size: A larger and more diverse sample size would improve the generalizability of the findings.</li> <li>2. Longitudinal Study: Studies carried out over time can better capture how TQM implementation strategies and barriers evolve in different stages of a company's development.</li> <li>3. Comparative Analysis: Comparing organizations that have successfully implemented TQM with those that have struggled with implementing it could provide valuable insights.</li> <li>4. In-depth Interviews: Personal interviews with management, employees, and stakeholders can provide more nuanced information about individual experiences and perspectives on the implementation of TQM.</li> <li>5. Case Study Approach: Real-life case studies can provide practical examples of the challenges and solutions related to the implementation of TQM.</li> <li>6. Diverse Industries: The study focuses solely on the construction industry. Other Industries could be included for more comprehensive results and to check the applicability of the findings.</li> <li>7. Examination of Cultural Aspects: Further research analyses of the impact of organizational culture on TQM implementation would be beneficial.</li> <li>8. Use of Mixed Methods: Incorporating quantitative and qualitative methods can provide a more comprehensive appraisal of the factors affecting TQM implementation.</li> <li>9. More Focus on Success Factors: Not just focusing on barriers but also on success factors enriches the understanding of what constitutes effective TQM implementation. By adopting these points of improvement, the research study would yield more comprehensive and generalized results.</li> </ol>	

**PART 2:**

	<p><b>Reviewer's comment</b></p>	<p><b>Author's comment</b> (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)</p>
<p>Are there ethical issues in this manuscript?</p>	<p><i>(If yes, Kindly please write down the ethical issues here in details)</i></p>	

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