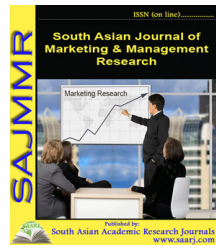




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## IN INDIA, THERE IS A LINK BETWEEN TQM AND TPM IMPLEMENTATION ELEMENTS AND MANUFACTURING SECTOR BUSINESS PERFORMANCE

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### ABSTRACT

*To investigate the strategic implications of TQM and TPM in an Indian manufacturing environment, as well as to conduct detailed literature studies to identify gaps. In an Indian setting, investigate the connection between variables affecting TQM and TPM implementation and company performance for the following three approaches: TQM alone, TPM alone, and both TQM and TPM combined. This is done in order to extract important variables for the three methods mentioned above. Design, technique, and strategy – An empirical survey-based study with a sample size of 108 manufacturing firms was conducted. Using SPSS, extracts important variables using bivariate correlation and multiple regression analysis methods. The research identifies two sets of factors that are critical for TQM and TPM effectiveness: universally significant factors for all three approaches, such as leadership, process management, and strategic planning, and approach-specific factors, such as equipment management and customer satisfaction focus. The research also emphasizes the challenges of combining TQM with TPM implementation. By focusing on extracted variables, businesses will be able to get more advantages from TQM and TPM. This research is particularly significant in a worldwide perspective, since businesses all over the world are attempting to achieve TQM and TPM synergy. Originality/value – The readiness/status of the Indian manufacturing sector for TQM and TPM adoption, since India is becoming a significant sourcing base for the globe and there are few studies on the topic. In the context of poor nations, there hasn't been any research into TQM and TPM in all three modes at the same time. In a global setting, such research is equally essential.*

**KEYWORDS:** India, Operations Management, Productive Maintenance, Total Quality Management, Manufacturing Industries.

**REFERENCES:**

1. K. Singh and I. S. Ahuja, "An evaluation of transfusion of TQM-TPM implementation initiative in an Indian manufacturing industry," *Journal of Quality in Maintenance Engineering*. 2015, doi: 10.1108/JQME-04-2013-0017.
2. M. Kaur, K. Singh, and I. S. Ahuja, "An evaluation of the synergic implementation of TQM and TPM paradigms on business performance," *Int. J. Product. Perform. Manag.*, 2013, doi: 10.1108/17410401311285309.
3. A. P. Kedar and V. N. Borikar, "Critical Success Factors for Effective Implementation of TQM & TPM," *Int. J. Innov. Res. Science Technol.*, 2016.
4. P. A. Konecny and J. H. Thun, "Do it separately or simultaneously - An empirical analysis of a conjoint implementation of TQM and TPM on plant performance," *Int. J. Prod. Econ.*, 2011, doi: 10.1016/j.ijpe.2010.12.009.
5. P. T. Ward and R. Shah, "Lean manufacturing: context, practice bundles, and performance," *J. Oper. Manag.*, 2002.
6. A. Jain, R. Bhatti, H. Singh, M. Kaur, K. Singh, and I. Singh Ahuja, "International Journal of Productivity and Performance Management An evaluation of the synergic implementation of TQM and TPM paradigms on business performance," *Int. J. Product. Perform. Manag. J. Qual. Maint. Eng. Iss J. Manuf. Technol. Manag. Iss Int. J. Lean Six Sigma*, 2012.
7. S. Notoatmodjo, "Konsep Perilaku Kesehatan: Promosi Kesehatan Teori dan Aplikasi," *Jakarta: Rineka Cipta*. 2010.
8. A. Khalili, M. Y. Ismail, A. N. M. Karim, and M. R. Che Daud, "Critical success factors for soft TQM and lean manufacturing linkage," *Jordan J. Mech. Ind. Eng.*, 2017.
9. K. Singh and I. S. Ahuja, "Justification of TQM-TPM implementations in manufacturing organisations using analytical hierarchy process: A decision-making approach under uncertainty," *Int. J. Product. Qual. Manag.*, 2012, doi: 10.1504/IJPQM.2012.047942.
10. M. C. Eti, S. O. T. Ogaji, and S. D. Probert, "Implementing total productive maintenance in Nigerian manufacturing industries," *Appl. Energy*, 2004, doi: 10.1016/j.apenergy.2004.01.007.