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Abstract

The main objective of this study is to examine the adoption of e-procurement and its implication on supply chain of multinational Oil Companies using Ghana as a case study. The research employed the mixed research approach. Using a sample size of 37, data was collected and analysed. The research revealed that procurement activities in ENI oil Exploration Company involves effective planning, sourcing, and contract management. It also found that e-procurement has been adopted by employees in ENI oil Exploration Company to a large extent. Factors influencing the implementation of e-procurement in the supply chain of ENI are primarily user acceptance of new information system, as well as Information quality, trust, and risk perception. Mean ranking revealed that the major implication of e-procurement on the supply chain include centralized purchasing function, decrease in size of buying centre, altered vendors and suppliers relationship, ability to measure and monitor orders, sales personnel ability to check all sales related information on his/her computer and employees empowerment to manage purchasing and cost saving.

General terms

Multinational Firms, Transaction Management

References

1. M. A. a. A. S. Z. Hasan, The emergence of e-procurement as an important tool used by businesses to achieve & sustain their strategic objectives: A macroeconomic, 2011.
2. C. & Lee, 2003.
3. H. & Abidin, 2011.
4. C. N. Chia, "Increase your profit margin through electronic procurement," Journal of Internet Purchasing, 1998.
5. A. e. w. Paper, "E-sourcing: Negotiation value in a volatile Economy," Aberdeen Group, Boston, MA, 2001.
6. S. & M. P. Chopra, Supply Chain Management. Upper Saddle River, Pearson Prentice Hal, 2004.
7. M. Christopher, Logistics and Supply Chain Management: Strategies for Reducing Costs and Improving Services (2nd ed.), London: Pitman, 1998.
8. S. Holmberg, Supply chain integration through performance measurement., Lund.: Lund University., 1997.
9. S. R. & J. R. Croom, "E-service: enhancing internal customer service through e-procurement," International Journal of Service Industry Management, vol. 14, no. 5, pp. 539-555, 2003.
10. Q. & K. R. J. Dai, ""Business Models for Internet-Based E Procurement Systems and B2B Electronic Markets: An Exploratory Assessment.," in Thirty-Fourth Annual Hawaii International Conference on Systems Sciences, January , Hawaii, January, 2001.
11. a. A. M. Damavandi M., "The Impact of E-Procurement Implementation on Performance of Ship Management: Case Study of IRISL," in IEEE 3rd International Conference on Communication Software and Networks (ICCSN), 2011.
12. D. Davis F., "User Acceptance of Information Technology: System characteristics, User Perceptions and Behavioural Impact," International Journal of Man-Machine Studies, vol. 38, 1993.
13. R. R. M. Kalakota, e-business 2.0: roadmap for success, Adison-Wesley, 2001.
14. S. A. S. M. & C. G. Vaidya K., " Critical Factors That Influence E-Procurement Implementation Success In The Public Sector.," Journal Of Public Procurement, vol. 6, no. 1 & 3, pp. 70 - 99, 2006.
15. R. Batenburg, " E-procurement Adoption by European Firms: A Quantitative Analysis.," Journal of Purchasing and Supply Management, vol. 13, p. 182–192, 2007.
16. J. E. A. Spratt, ""We are the ones that talk about difficult subjects': nurses in schools working to support young people's mental health', Pastoral Care in Education,," vol. 28, no. 2, pp. 131 - 144, 2010.
17. J. Creswell, Educational research: Planning, conducting, and evaluating quantitative and qualitative research, Upper Saddle River, New Jersey: Merrill Prentice Hal, 2002.
18. C. T. Ma. D., "Purposive Sampling as a Tool for Informant Selection.," Ethnobotany Research & Applications, vol. 5, 2007.
19. T. Y., Statistics: An Introductory Analysis, New York: Harper and Row, 1967.

20. T. E. A. Osmonbekov, "Adoption of electronic commerce tools in business procurement: enhanced buying center structure and processes," *Journal of Business & Industrial Marketing*, vol. 17, no. 2, pp. 2-3, 2002.
21. S. L. E. A. Kulp, Using organizational control mechanisms to enhance procurement efficiency: how Glaxo SmithKline improved the effectiveness of e-procurement. *Interfaces*. 36(3), 2006.
22. K. Mitchell, *Instituting E-Procurement In The Public Sector*, Public Management., 2000.
23. Nelson et al., *Information Resource Management Association*, Information Resource Management Association, 2013.
24. I. R. M. Association, "Supply Chain Management: Concepts, Methodologies, Tools and Applications," *Business Science Reference (IGI Global)*. , vol. 1, 2013.
25. R. T. R. a. H. R. Monczka, *Purchasing and Supply Chain Management*, Cincinnati (OH): International Thomson Publishing, 1997.
26. M. B, *Achieving E- Procurement Benefits in an Aviation MRO Environment*., 2016.
27. F. K. P. V. Polonia G., "Analysis Of Sample Size In Consumer Surveys.," 2013.
28. S. A. Poland Venkatesh, "Exploring the business case for e-procurement.," *International Journal of Physical Distribution & Logistics Management*, vol. 40, no. 3, pp. 181-201, 2010.
29. D. & M. C. Smith, *E-Procurement and Online Marketplaces.*, Amsterdam, The Netherlands:: Compact., 2001.
30. V. V. e. al, "User Acceptance of Information Technology: Toward a Unified View.," *MIS Quarterly*., vol. 27, no. 3, 2003.
31. A. & v. J. Weel, *Purchasing and Supply Chain Management: Analysis, Strategy, Planning and Practice*, Andover: Cengage Learning., 2010.
32. D. Wright, "Comparative evaluation of electronic payment systems. *INFOR* 40(1)," *INFOR* , vol. 40, no. 1, 2000.

Index Terms

Computer Science

Information Systems

Keywords

E-procurement, Supply Chain, Sourcing and Maverick buying practice