

**Developing a framework for RFID implementation in the supply
chain:Developing country perspective**

Thesis report of MS Supply Chain Management



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ABSTRACT

There has been an increasing trend of studying RFID and its applications indifferent sectors & industries in developed countries. But unfortunately there is a scarcity of research studies in literature regarding developing countries.

This study is an effort to contribute in literature of RFID implementation in developing countries like Pakistan. The focus of the study is to explore and explain the different aspects of RFID implementation and also explain the success factors of RFID implementation in Pakistani environment.

The main research objectives are to develop a framework for guidance of the Pakistani industry people to implement RFID in the supply chains. An extensive literature review is conducted. All the existing frameworks are studies and summarize in literature review. In the literature review RFID and its applications are explained. All the concepts and terminologies are defined in literature review. Research gaps are also identified and mentioned in the form of figure.

The methodology for this research study is used is qualitative and qualitative research techniques are applied. The complete research design is explained in detail in methodology section which includes research methods, techniques, sampling techniques and reliability and validity. For this purpose the multiple case studies approach is selected and multiple semi-structured interviews were held to collect real time data and analyzed in the light of literature review. The interviews are conducted with the help of semi-structured questionnaire. The case study companies selected purposefully either the case companies are using the any application of RFID currently or they have been part of RFID implementation at some stage.

The data collected through interviews from industry experts is analyzed in the form of aspects (barriers and drivers) of RFID implementation and critical success factors of RFID implementation. The most important highlighted areas in data analysis are lack of awareness, understanding to the RFID applications in Supply chains. The Culture is also one of the major hindrances in adoption and implementation of RFID. The next area which is in scarcity is lack of infrastructures and frameworks in developing country perspectives. The motivational forces are expected benefits, expected outcomes of RFID in supply chain, improve efficiencies, expected return on investment.

In the end a suggested framework for RFID implementation is presented which should be tested and can be improved further in future studies.

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