CHAPTER NO 7: RESULT AND DISCUSSION

The study identifies the priority rankings of the KM implementation 12 criteria & 128 sub criteria for the Indian manufacturing industries. By understanding their relative importance, KM can evaluate their current practices and re-allocate resources and efforts to these criterion and sub criterion to improve their KM performance.

The present work is carried out to understand the knowledge management issues and their importance in Indian manufacturing industry perspective. Present study proceeds sequentially, with the study of knowledge management practices in manufacturing industries and their priorities, followed by investigations on knowledge management motivations using various modelling approaches.

In India, studies on KM practices in manufacturing industries have mainly focused on theories to identifying KM practices criteria for different sectors of industries. However, for proper implementation of KM practices in automobile manufacturing industries, not only identification of KM criteria is essential but developing an implementation road map. Further, evaluation of performance of an individual manufacturing sector based on certain criterion does not give an exact idea regarding the rank of the individual manufacturing sector in that region. Therefore, ranking a method has to be devised by which performance of select manufacturing sectors in that region can be evaluated. However, evaluating and comparing the practices of the manufacturing sectors in a group is a complex task as it requires multiple output measurement criteria that matches with the multiple objectives of each manufacturing sector. It requires a technique which could provide the correct and required information to the decision makers. Therefore, in this research work, an attempt has been made to provide a framework for implementation of KM which comprises of KM practices road map, prioritizing different criterion and evolving a methodology by which the performance of the manufacturing sectors in a group can be evaluated and compared. This methodology has been developed for the automobile manufacturing sector, which is one of the most important sectors not only in terms of the growth but also for its contribution towards global development.
Based on the data from Indian Manufacturing industries, the present study revealed 12 validated factor structure to measure the KM level of any organization and suggests points of improvements. All the 12 factors are validated based on proven statistical tools and techniques. The reliability (alpha) scores for thirteen dimensions are 0.674, 0.834, 0.787, 0.874, 0784, 0.879, 0.941, 0.681, 0.743, 0.647, 0.693 and 0.979 respectively.

**Factor analysis** is a method of data reduction. The method is used to conduct a factor analysis is a form of exploratory multivariate analysis that is used to reduce the number of variables in a model. The factor analysis is used to determine the number of factors that are to extract. The sub factors are those selected having the positive values from rotated component matrix is used for factorial loading.

**From ISM model we conclude that** The levels of the enabler’s are square measure necessary within the understanding of the prospering click implementation. Prime management support/Leadership is that the foremost important barrier as a result of its high driving power and low dependence among all the known click enablers. This quantified hierarchy of the click obtained from the integrated approach can give facilitate to the managers in overcoming them in line with their driving power and effectiveness at intervals the producing industries. This enabler is placed at the lowest level within the hierarchy of the philosophical system is systematic processes, is at the simplest level at intervals the ISM-based model thanks to its high dependence power and low driving power. The driving power and dependence diagram as shown indicates that there aren’t any driver and linkages enablers at intervals the method of prospering for implementation of KM. The absence of driver enablers and linkages throughout this study indicates that are all the known enabler influence the method of prospering knowledge management.