Comparative Study of Top Management Involvement and Team Building among Quality Award and Non-Quality Award Winning Manufacturing Industries in Karnataka State in India

Ravi Kumar R¹, Subrahmanya Bhat², Gururaj Upadyaya³, Satyabodh M Raichur⁴

¹Research Scholar, Mechanical Engineering, NMAMIT, NITTE, Udupi, Karnataka India.^{2,3} Professor, Mechanical Engineering, NMAMIT, NITTE, Udupi, Karnataka, India, ⁴Professor, Mechanical Engineering, APS College of Engineering, Bangalore, Karnataka ¹Corresponding Author: ravi.kr727@gmail.com

Article Info	Abstract						
Page Number: 8173 - 8195	This work talks about comparative study of Employee involvement						
Publication Issue:	parameters such as top management and team building in quality award						
Vol 71 No. 4 (2022)	and non-quality award winning manufacturing organisation in Karnataka						
	state in India. Parameters such as Top management involvement and team						
	buildingare examined with stastistically. The purpose is to identify						
	differences in the manufacturing industries who have won quality awards						
	such as Deming, CII-Exim and Ramakrishna Bajaj Awards about top						
	management involvement and team building to give suggestions to non-						
	quality award winning organisation. For this survey has been extensively						
	carried out to get response from employees across various manufacturing						
	industries in Karnataka. Primary survey was carried out and received						
	response from 736 out of which 650 ofnon quality award winning and 86						
Article History	of quality award winning organisation from various industry in Karnataka						
Article Received: 25 March 2022	o stata in India						
Revised: 30 April 2022	a state in mora.						
Accepted: 15 June 2022	Keywords: Team Building, Top management involvement, Quality						
Publication : 19 August 2022	management, employee involvement						

1. INTRODUCTION:

Today's business environment is very competitive, which has challenged business thinkers to be creative in examining new strategies for survival, growth, competitiveness, and profitability. The reality is that businesses must "shape up" or "ship out" in today's markets where stakeholders

continuously demand more value and competitors provide increasing challenges. Modern business problems demand modern business solutions, thus managers have addressed innovation from many different perspectives, including product, production, procedures, and interactions. Being the department closest to the company's consumers and competitors, marketing has been given the difficult duty of creatively managing innovation projects and innovation itself in the current era of fierce global rivalry, knowledgeable and demanding customers, and activist shareholders. Thus, marketing professionals have looked for fresh and distinctive ways to benefit stakeholders and provide their company a competitive edge. Every marketing decision or activity is driven by the primary motivation to increase marketing performance since the firm's marketing performance, which is essential to the corporate health of the business venture, also impacts the firm's ability to stay in business.

Although having access to the latest manufacturing technologies, equipment, and resources is crucial, the success of a plant ultimately depends on the employees who use those tools. Employees must feel engaged and motivated in their jobs in order to resist the urge to look for work elsewhere.

Continual training and career growth opportunities are a crucial part of keeping employees engaged. Instead than going through the hiring process to find an external applicant when a new position is needed, train and support current employees so they may advance into roles.

The employee will value the chance for advancement and growth, and you won't have to deal with the hassles of the recruitment and on boarding process. Instead of doing annual reviews, have regular discussions with your staff and solicit their opinions on new initiatives.

Effective executive involvement can considerably increase project success since top management support is one of the key success criteria in project management. However, companies are not given a clear list of efficient top management support techniques to attain this type of support in the literature. Thus, the focus of this research is on the top management support mechanisms that are crucial to project success.

Many professionals today are goal oriented. Establish realistic goals together as a team and work towards achieving them. Talk about these goals and review them on a regular basis. In manufacturing, specifically in regulated industries, a lot can change in a very small amount of time. It is a good idea to constantly create goals, both for the short term and the long term. Talk to employees about what they aspire to and provide them with the resources they need to achieve these goals.

2. Literature Review

This Study is carried to understand how Employee Involvement parameter such as top management and team leadership effects on TQM practices. Parameters that affect top management are found to be Achieving vision & mission towards Quality Award, Board level decision involvement, Provide complete control over work, Quality circle participation, Job enlargement and enrichment, Concurrent engineering decisions, Response to changes and take immediate action, Financial participations, Quality improvement teams are active, Critical quality issues are identified collectively and parameter such as team leadership is defined by Clear understand of roles of fellow members, Mission are well aligned with goals, Value all members, Avoid duplication, Effective listeners, Communication is honest, Cooperation and mutual support, Work without any differences, Trusting and supportive relationship with other team, Communication is effective cross functionally, Collaboration are productive, Integrate our plan with other group.

3. Objective of the Present work:

This paper concentrate on comparative study of employee involvement in Quality award and non Quality Award firms in manufacturing industries for parameters such as top management and team leadership. The performance of the firms are tested statistically.

4. General Information of the participant companies

The information provided by the participant companies and the survey results are discussed below. It begins with the general descriptive statistics of respondents. It consists of the response rate, percentage of responses, types of industry involved and the status of employee involvement. The survey covered 736 companies. A total of 650 responses were received from non-quality award winning and 86 from quality award winning firms in Karnataka. Breakdown of the respondents regarding their size and type of industry is shown in Table[°]. A small proportion 18% of the organization was categorized as large industries with more than 500 employees, and another 39% of the organization were medium sized industries employing between 100 to 500 employees, while the small industries, those having less than 100 employees, represented 26% of the total respondents from Non Quality Award winning firms. Breakdown of the respondents of non quality award winning firms regarding their size and type of industry is shown in Table 1. About 56% of the organization was categorized as large industries with more than 500 employees, and another 44% of

the organization were medium sized industries employing between 100 to 500 employees from Quality Award winning firms.

Type / Size	Number of Responses	Percentage (%)	Number of Responses	Percentage
Size of the Company				
(a) > 1000 employees (Large)	121	18	48	56
(b) between 500 & 1000 Employees (Medium)	257	39	38	44
(c) <500 employees (Small)	171	26		
(d) Undisclosed	101	15		
Total	650	100	86	100

Fable 1 Desmannes	ma a a i rea d	here along	af the	
ladie i Responses	receivea	DV SIZE	orine	company
ruble i responses	10001104	0 5120	or the	company

5. Results and Discussion

r

Normality Test: A normality test assesses whether a sample of data is representative of a population that has a normal distribution. It is typically carried out to see if the research's data have a normal distribution. The Kolmogorov-Smirnov Test for Normality was carried and the data was found normal distribution curve.

Factor test: Factor analysis was conducted to condense or summarize the information on reasons for Employee Involvement into a smaller set of new composite dimensions (factors) with a minimum loss of information.

Table2: KMO	and	Bartlett's	Test
-------------	-----	------------	------

Kaiser-Meyer-Olkin Measure of Sampling Adequacy.			
Approx. Chi-Square	1397.675		
df	1225		
	of Sampling Adequacy. Approx. Chi-Square df		

Sig.	.000

Reliability Test:

The Factors decided were then subjected to reliability analysis, which is the requirement for such type of data analyses. Internal consistency method was used to conduct reliability analysis. Internal consistency can be established using a reliability coefficient such as Cronbach's alpha. Alpha is the average of the correlation coefficient of each item with each other item. Table

Table 3

Factor name	Cronbach alpha
Top Management	0.882
Team Leadership	0.827

Hypothesis test:

Hypothesis are formulated for each and every questions for both quality award and non quality award firms .

H ₀ (1.0W)	Top Management involvement does notexist in the respondent firms
H ₀ (1.1-W)	The employees of the company are not aware of vision & mission
	statement of my firm
H ₀ (1.2-W)	Participative Management doesnot exists in the firms
H ₀ (1.2.1-W)	Firm does not involve employees for participation at the board level for
	major decisions.
H ₀ (1.2.2-W)	Firm does not provide employees control over the work
H ₀ (1.2.3-W)	Firm does not encourage employees by allowing participation through
	quality circles.
H ₀ (1.2.4-W)	Firm does not encourage employees by Participation through job
	enlargement and enrichment.

Table:4 Null Hypothesis for Quality Award Firm.

H ₀ (1.3-W)	Continuous Improvement doesnot exists in the firms
H ₀ (1.3.1-W)	Firm does not involve in concurent engineeriing decision making
H ₀ (1.3.2-W)	Firm does not response to changes and take immediate action
H ₀ (1.3.3-W)	Firm does not encourage employees by Financial participation.
H ₀ (1.3.4-W)	Quality improvement teams are not widely used and are not active in all
	departments
H ₀ (1.3.5-W)	Firm doesnot identify quality issues collectively
H0(2-W)	Team leadership does notexist in the respondent firms
H ₀ (2.1-W)	Common goals doesnot exists in the firms
H ₀ (2.1.1-W)	In the firm roles and responsibilities of members are not aware to
	fellow members
H ₀ (2.1.2-W)	Firm mission are not alligned with goals of organisation
H ₀ (2.1.3-W)	Firm doesnot values all members
H ₀ (2.1.4-W)	The firm duplicates the work
H ₀ (2.2.W)	Team leadership doesnot exists in the firms
H ₀ (2.2.1-W)	Firm disagree that the team members are effective listeners
H ₀ (2.2.2-W)	The firm disagree if the team members communicate honestly.
H ₀ (2.2.3-W)	The firm disagree the team members cooperate with each other and
	support simultaneously.
H ₀ (2.2.4-W)	The firm disagree the team members are unanimous that is work
	without any difference between the employers
H ₀ (2.3-W)	Cross functional participation doesnot exist in respondent firms
H ₀ (2.3.1-W)	Firm disagree that there team upholds the other team members trust
	and support
H ₀ (2.3.2-W)	Firm denis the proper communicationt with other teams
H ₀ (2.3.3-W)	Firm does not ensures collaboration of team members with other teams
	are productive
H ₀ (2.3.4-W)	Firm disagree that their teams combines with other team to integrate
	establish ideas

We now state hypothesis for non quality award firms

$H_0(1.0NW)$	Top Management involvement does notexist in the respondent firms
H ₀ (1.1-NW)	The employees of the company are not aware of vision & mission statement of my firm
H ₀ (1.2-NW)	Participative Management doesnot exists in the firms
H ₀ (1.2.1-NW)	Firm does not involve employees for participation at the board level for major decisions.
H ₀ (1.2.2-NW)	Firm does not provide employees control over the work
H ₀ (1.2.3-NW)	Firm does not encourage employees by allowing participation through quality circles.
H ₀ (1.2.4-NW)	Firm does not encourage employees by Participation through job enlargement and enrichment.
H ₀ (1.3-NW)	Continuous Improvement doesnot exists in the firms
H ₀ (1.3.1-NW)	Firm does not involve in concurent engineeriing decision making
H ₀ (1.3.2-NW)	Firm does not response to changes and take immediate action
H ₀ (1.3.3-NW)	Firm does not encourage employees by Financial participation.
H ₀ (1.3.4-NW)	Quality improvement teams are not widely used and are not active in all departments
H ₀ (1.3.5-NW)	Firm doesnot identify quality issues collectively
H0(2-NW)	Team leadership does notexist in the respondent firms
H ₀ (2.1-NW)	Common goals doesnot exists in the firms
H ₀ (2.1.1-NW)	In the firm roles and responsibilities of members are not aware to fellow members
H ₀ (2.1.2-NW)	Firm mission are not alligned with goals of organisation
H ₀ (2.1.3-NW)	Firm doesnot values all members
H ₀ (2.1.4-NW)	The firm duplicates the work
H ₀ (2.2.NW)	Team leadership doesnot exists in the firms
H ₀ (2.2.1-NW)	Firm disagree that the team members are effective listeners
H ₀ (2.2.2-NW)	The firm disagree if the team members communicate honestly.
H ₀ (2.2.3-NW)	The firm disagree the team members cooperate with each other and support simultaneously.
H ₀ (2.2.4-NW)	The firm disagree the team members are unanimous that is work without any difference between the employers
H ₀ (2.3-NW)	Cross functional participation doesnot exist in respondent firms
H ₀ (2.3.1-NW)	Firm disagree that there team upholds the other team members trust and support
H ₀ (2.3.2-NW)	Firm denis the proper communicationt with other teams
H ₀ (2.3.3-NW)	Firm does not ensures collaboration of team members with other teams are productive

Table 5: Null Hypothesis for Non-Quality award winning firms

H ₀ (2.3.4-NW)	Firm disagree that their teams combines with other team to integrate
	establish ideas

Above tables we have stated hypothesis for conducting independent sample test and have carried test for all the variables . We have also carried F Test to identification of significance difference between the firms. To accept null hypothesis significance value from T test should be less than or equal to 0.05. Similarly to accept significance of the results through F test we will be doing further F test and if Significance is less than or equal to 0.05 then we accept null hypothesis.

Table 6 :Results of the test								
Sub	Parameters	F	Sig.	Т	Sig.	Type of	Type of	Results of
Parameters					(2-	Company	Hypothesis	Significance
					tailed)		Accepted	
	Achieving	20.93	0	1.22	0.06	Non-		H1(1.1-SD)
	vision &					Quality		There is a
	mission							significant
	towards Quality							difference
	Award							between
								employees of
								Quality Award
								and firms that
								have not won
								Quality Awards
								in terms of
								awareness of
								vision &
							H0(1.1-	mission
							NW) Null	statement
							Hypothesis	
							Accepted	
				7.81	0	Quality	H1(1.1-W)	
							Alternative	
							Hypothesis	
							Accepted	

Participative management	Board level decision involvement					Non- Quality		H1(1.2.1-SD) There is a significant difference between employees of Quality Award winning firms and firms that have not won Quality Awards in terms of
							H0(1.2.1-	Board level decision
							NW) Null Hypothesis	involvement
		107.34	0	0.92	0.09		Accepted	
						Quality	H1(1.2.1- W)	
							Alternative	
				9.47	0		Accepted	
	Provide complete control over work					Non- Quality		
							H0(1.2.2-	H1(1.2.2-SD) There is a significant difference between employees of Quality Award winning firms and firms that have not won Quality Awards in terms of Provide complete control over
							NW) Null Hypothesis	work
		18.31	0	1.83	0.07	Quality	Accepted H1(1.2.2-	
					0.01		W)	
				2.02	0.01		Alternative	1

							Hypothesis	
							Accepted	
	Quality circle					Non-	H0(1.2.3-	H1(1.2.3-SD)
	participation					Quality	NW) Null	There is a
							Hypothesis	significant
		16.25	0	1.46	0.09		Accepted	difference
						Quality		between
						- •		employees of
								Quality Award
								winning firms
								and firms that
							H1(1.2.3-	have not won
							W)	Quality Awards
							Alternative	in terms of
							Hypothesis	Quality circle
				9.05	0		Accepted	participation
	Job					Non-		H1(1.2.4-SD)
	enlargement					Quality		There is a
	and enrichment					- •		significant
								difference
								between
								employees of
								Quality Award
								winning firms
								and firms that
								have not won
								Quality Awards
								in terms of Job
								enlargement
							H0(1.2.4-	and enrichment
							NW) Null	
							Hypothesis	
		7.68	0.01	7.11	0.06		Accepted	
						Ouality	H1(1.2.4-	
							W)	
							Alternative	
							Hypothesis	
				8.44	0		Accepted	
Kaizen	Concurrent					Non-	H0(1.3.1-	H1(1.3.1-SD)
	engineering					Ouality	NW) Null	There is a
	decisions						Hypothesis	significant
		10.28	0	1.76	0.06		Accepted	difference

					Ouality		between
							employees of
							Ouality Award
							winning firms
							and firms that
							have not won
						H1(1 3 1-	Quality Awards
						W)	in terms of
						Alternative	Concurrent
						Hypothesis	engineering
			5 86	0		Acconted	docisions
Deenonge to			5.80	0	Non	Accepted	
Response to					INON-		HI(1.3.2-SD)
changes and					Quanty		I nere is a
take immediate							significant
action							difference
							between
							employees of
							Quality Award
							winning firms
							and firms that
							have not won
							Quality Awards
							in terms of
							Response to
							changes and
							take immediate
						H0(1.3.2-	action
						NW) Null	
						Hypothesis	
	7.92	0	2.62	0.09		Accepted	
					Quality	H1(1 3 2-	
					Quality	W)	
						Alternative	
						Hypothesis	
			2 99	0.04		Accepted	
Financial			,,,	0.04	Non-	H0(1 3 3_	H1(1 3 3-SD)
narticipations					Quality	NW) Null	$\frac{111(1.3.3-5D)}{\text{There is a}}$
participations					Quanty	Hypothesis	significant
	55 78	0	1.05	0.08		Accepted	difference
	33.78	0	1.05	0.08	Ovality	Accepted	botwoon
					Quanty		employees of
							Quality Award
							Winning firms
							and firms that
						H1(1.3.3-	have not wor
						W)	Quality Awarda
						Alternative	in terms of
						Hypothesis	Einer eiel
			1.8	0.01		Accepted	rmancial

							participations
Quality					Non-		H1(1.3.4-SD)
teams are active					Quality		significant
							difference
							between
							employees of
							Quality Award
							and firms that
							have not won
							Quality Awards
							in terms of
							Quality
						H0(1.3.4- NW) Null	teams are active
						Hypothesis	teams are active
	3.23	0.03	1.09	0.12		Accepted	
					Quality	H1(1.3.4-	
						W)	
						Alternative	
			6.04	0		Hypothesis	
			0.74	0		Accepted	

	Critical quality issues are identified collectively					Non- Quality	H0(1.3.5- NW) Null	H1(1.3.5-SD) There is a significant difference between employees of Quality Award winning firms and firms that have not won Quality Awards in terms of Critical quality issues are identified collectively
		8.78	0	1.42	0.17		Accepted	
						Quality	H1(1.3.5- W) Alternative	
				4.92	0		Accepted	
Common goals	Clear understand of roles of fellow members	3.49	0	1.49	0.16	Non- Quality Quality	H0(2.1.1- NW) Null Hypothesis Accepted H1(2.1.1- W)	H1(2.1.1-SD) There is a significant difference between employees of Quality Award winning firms and firms that have not won Quality Awards in terms of Clear understand of roles of fellow members
				1 63	0.05		Alternative	

						Accepted	
Mission is well					Non-		H1(2.1.2-SD)
aligned with					Quality		There is a
goals							significant
							difference
							between
							employees of
							Quality Award
							winning firms
							and firms that
							nave not won
							Quality Awards
							Mission are
							well aligned
						H0(2, 1, 2)	with goals
						HU(2.1.2- NW) Null	while gouis
						Hypothesis	
	10.29	0	1.61	0.06		Accepted	
	10.27	0	1.01	0.00	Quality	$H1(2 1 2_{-})$	
					Quanty	W)	
						Alternative	
						Hypothesis	
			7.81	0		Accepted	
Value all					Non-	1	H1(2.1.3-SD)
members					Quality		There is a
					- •		significant
							difference
							between
							employees of
							Quality Award
							winning firms
							and firms that
							have not won
						H0(2,1,3-	Quality Awards
						NW) Null	Voluo all
						Hypothesis	v alue all
	5.55	0.02	1.86	0.06		Accepted	members
					Quality	•	
						H1(2.1.3-	
						W)	
						Alternative	
						Hypothesis	
			2.16	0.03		Accented	

	Avoid duplication	5.75	0.02	1.86	0.06	Non- Quality	H0(2.1.4- NW) Null Hypothesis Accepted	H1(2.1.4-SD) There is a significant difference between employees of Quality Award winning firms and firms that have not won Quality Awards in terms of Avoid Duplication
						Quanty		
				4.45	0		H1(2.1.4- W) Alternative Hypothesis Accepted	
Team leadership	Effective listeners	7.58	0	1.08	0.09	Non- Quality		H1(2.2.1-SD) There is a significant difference between employees of Quality Award winning firms and firms that have not won Quality Awards
							H0(2.2.1- NW) Null Hypothesis Accepted	in terms of Effective listeners
				7.21	0.04	Quality	. F 2	
							H1(2.2.1- W) Alternative Hypothesis Accepted	

Communication is honest	35.75	0	1.75	0.08	Non- Quality	H0(2.2.2- NW) Null Hypothesis Accepted	H1(2.2.2-SD) There is a significant difference between employees of Quality Award winning firms and firms that have not won Quality Awards in terms of Communication is honest
			2.42	0.01	Quality	H1(2.2.2- W) Alternative Hypothesis Accepted	
Cooperation and mutual support	9.15	0.003	1.62	0.07	Non- Quality	H0(2.2.3- NW) Null Hypothesis Accepted	H1(2.2.3-SD) There is a significant difference between employees of Quality Award winning firms and firms that have not won Quality Awards in terms of Cooperation and mutual support

			12.57	0	Quality		
						H1(2.2.3- W) Alternative Hypothesis Accepted	
Work without any differences	10.34	0.03	1.3	0.07	Non- Quality	H0(2.2.4- NW) Null Hypothesis Accepted	H1(2.2.4-SD) There is a significant difference between employees of Quality Award winning firms and firms that have not won Quality Awards in terms of Work without any differences
			7.98	0.02	Quality	H1(2.2.4- W) Alternative Hypothesis Accepted	

Cross- functional teams	Trusting and supportive relationship with another team	11.08	0	1.22	0.06	Non- Quality		H1(2.3.1-SD) There is a significant difference between employees of Quality Award winning firms and firms that have not won Quality Awards in terms of Trusting and supportive relationship with other team
							H0(2.3.1- NW) Null	
							Accepted	
				3.26	0.01	Quality		
							H1(2.3.1- W) Alternative Hypothesis Accepted	

Communication is effective cross functionally	38.1	0			Non- Quality		H1(2.3.2-SD) There is a significant difference between employees of Quality Award winning firms and firms that have not won Quality Awards in terms of Communication
			1.86	0.06		H0(2.3.2- NW) Null Hypothesis Accepted	functionally
					Quality	-	
						H1(2.3.2- W) Alternative	
			2.16	0.03		Accepted	
Collaboration is productive	4.24	0.03	1.67	0.06	Non- Quality	H0(2.3.3- NW) Null Hypothesis Accepted	H1(2.3.3-SD) There is a significant difference between employees of Quality Award winning firms and firms that have not won Quality Awards in terms of Collaboration are productive

			11.54	0	Quality		
						H1(2.3.3- W) Alternative Hypothesis Accepted	
Integrate our plan with another grp	23.08	0.02	1.39	0.09	Non- Quality	H0(2.3.4- NW) Null Hypothesis Accepted	H1(2.3.4-SD) There is a significant difference between employees of Quality Award winning firms and firms that have not won Quality Awards in terms of Integrate our plan with other group
			5.82	0	Quality	H1(2.3.4- W) Alternative Hypothesis Accepted	

6. Conclusions:

From the above table we can conclude that for Top management Involvement variables such as Achieving vision & mission towards Quality Award, Board level decision involvement, Provide complete control over work, Quality circle participation, Job enlargement and enrichment, Concurrent engineering decisions, Response to changes and take immediate action, Financial participations, Quality improvement teams are active, Critical quality issues are identified collectively accepts Null Hypothesis in Non Quality award winning firms that indicated there is no Top management involvement in the firms with respect to Employee Involvement.

From the above table we can conclude that for Team Leadership parameters variables such as Clear understand of roles of fellow members, Mission are well aligned with goals, Value all members, Avoid duplication, Effective listeners, Communication is honest, Cooperation and mutual support, Work without any differences, Trusting and supportive relationship with other team, Communication is effective cross functionally, Collaboration are productive, Integrate our plan with other group, accepts Null Hypothesis in Non Quality award winning firms that indicated there is no Team leadership involvement in the firms with respect to Employee Involvement.

From the above table we can conclude that for Top management Involvement variables such as Achieving vision & mission towards Quality Award, Board level decision involvement, Provide complete control over work, Quality circle participation, Job enlargement and enrichment, Concurrent engineering decisions, Response to changes and take immediate action, Financial participations, Quality improvement teams are active, Critical quality issues are identified collectively accepts Alternative Hypothesis in Quality award winning firms that indicated there is Top management involvement in the firms with respect to Employee Involvement.

From the above table we can conclude that for Team Leadership parameters variables such as Clear understand of roles of fellow members, Mission are well aligned with goals, Value all members, Avoid duplication, Effective listeners, Communication is honest, Cooperation and mutual support, Work without any differences, Trusting and supportive relationship with other team, Communication is effective cross functionally, Collaboration are productive, Integrate our plan with other group, accepts Alternative Hypothesis in Quality award winning firms that indicated there is Team leadership involvement in the firms with respect to Employee Involvement.

To conclude and justify the results F test was carried and the results from the F test signifies for Top management Involvement variables such as Achieving vision & mission towards Quality Award, Board level decision involvement, Provide complete control over work, Quality circle participation, Job enlargement and enrichment, Concurrent engineering decisions, Response to changes and take immediate action, Financial participations, Quality improvement teams are active, Critical quality issues are identified collectively accepts null Hypothesis Signifying that there is Difference between Quality Award winning Firm and Non Quality Award Winning Firm. To conclude and justify the results F test was carried and the results from the F test signifies for Team Leadership parameters variables such as Clear understand of roles of fellow members, Mission are well aligned with goals, Value all members, Avoid duplication, Effective listeners, Communication is honest, Cooperation and mutual support, Work without any differences, Trusting and supportive relationship with other team, Communication is effective cross functionally, Collaboration are productive, Integrate our plan with other group, accepts null Hypothesis Signifying that there is Difference between Quality Award winning Firm and Non Quality Award Winning Firm.

Here by Author suggest Firms to improve Employee Involvement he need to look into parameters of Top management and Team Leadership.

7. Limitations of the research

The present research though has attempted to meet all the present objectives, at the end of the research some limitations have been noticed. Though these limitations do not belittle the value of the research they are indicated here to list the possible shortcomings imposed mainly by the circumstantial factors.

1) The Research is restricted to demography of Karnataka, based on few literatures Employee factors changes accordingly.

2) While doing the survey on effect of TQM practices on business performance, the age of the organization has not been considered and also no sectorial classification of the industries has been done.

References

- [1] Simon Albort et. al "Organizational resources and engagement, Career Development International" Vol. 23 No. 1, 2015
- [2] Gary Cattermole et. al . "Employee engagement welcomes the dawn of an empowerment culture" STRATEGIC HR REVIEW journal VOL. 12 NO. 5 2013, pp. 250-254,
- [3] Randy K. Chiu et. al. "Employee involvement in a total quality management programme: problems in Chinese firms in Hong Kong" Managerial Auditing Journal, 14,1/2 [1999] 8–11
- [4] Jens J. Dahlgaard et.al. "Lean production, six sigma quality, TQM and company culture"

The TQM Magazine, Vol. 18 No. 3, 2006 pp. 263-281

- [5] Zoe S. Dimitriades et.al. "Total involvement in quality management", Team Performance Management: An International Journal, Vol. 6 Issue: 7/8, pp.117-122
- [6] Kit fai pun "An Emperical Study of EI,TQM and Organisational performance in manufacturing enterprises "Asian Journal on Quality, 2002 Vol. 3 Iss 1 pp. 28 -47
- [7] Tor Guimaraes "TQM's impact on employee attitudes" The TQM Magazine Volume 8 · Number 1 · 1996 · pp. 20–25
- [8] Martin Jaeger "Perception of TQM benefits, practices and obstacles The case of project managers and quality management representatives in Kuwait" The TQM Journal Vol. 28 No., 2016 pp. 317-336
- [9] Noorliza Karia, "The effects of total quality management practices on employees' work-related attitudes" The TQM Magazine Vol. 18 No. 1, 2006, pp. 30-43
- [10] Simon S.K, "Quality management and job satisfaction, An empirical study" Lam International Journal of Quality & Reliability Management, Vol. 12 No. 4, 1995, pp. 72-78,
- [11] Ali Mohammad Mosadeghrad, "Essentials of total quality management: a meta-analysis"
- September 2013 International Journal of Health Care Quality Assurance Vol. 27 No. 6, 2014 pp. 544-558
- [12] Keng-Boon Ooi, "TQM practices and its association with production workers TQM practices and production workers", March 2008
- [13] S. Subba Rao,"The best commonly followed practices in the human resource dimension of quality management in new industrializing countries The case of China, India and Mexico" HR dimension of quality management IJQRM
- [14] F. Vouzas, Assessing managers' awareness of TQM, The TQM Magazine Vol. 19
- [15] Muhammad Naeem Khan (2018) TQM practices and workrelated outcomes, International Journal of Quality & Reliability Management,
- [16] Quazi, H.A. and Padibjo, S. R. (1998). A journey toward total quality management through ISO 9000 certification – a study on small and medium sized enterprises in Singapore. International Journal of Quality and Reliability Management. 15(5), pp. 489-508.