TOTAL QUALITY SERVICE (TQS) AND BUSINESS PERFORMANCE THROUGH SERVICE PROFIT CHAIN

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Introduction:

Quality is a term that carries important meaning to both producer and customer. In the global market today, many organisations realized that their survival in the business world depends highly on producing high quality product and services. Everyone has had experiences of poor quality when dealing with business organisations. Successful companies understand the powerful impact customer-defined quality can have on business (Anderson, 1994). For this reason many competitive firms continually increase their quality standards. Total quality service (TQS) and its components have a direct impact on customers' assessment of a company and the willingness to choose the service provider. Cavana et al. (2007) reported that total quality service becomes a crucial competitive bludgeon in service sector for the survival and growth as they compete in the marketplace so, only thing through which service oriented firms can gain customers is the service quality in totality (Stafford, 1996).

These studies focused on the partial relationships between internal service quality (Employee satisfaction) and external service quality (customer satisfaction). More comprehensive relationships are reflected with the service profit chain and a conceptual model for including the linkages of management practices with service companies (Heskett et al., 2008).

Objectives of the study

Automobile sector is becoming more and more competitive every day. In order to be successful in the field, focus is on providing quality services to its customers by satisfying its employees. The paper is designed to investigate the role of total quality service on financial performance through service profit chain. The paper also plans to design a model depicting the direct structural relationship between total quality service, internal service quality, employee

satisfaction, employee commitment, employee loyalty, external service quality, customer satisfaction and financial performance.

Literature Review:

Customer Loyalty and Financial Performance:

Satisfied employees leads to satisfied customers and lead an organisation towards profits as employee satisfaction has a strong influence on employee turnover intention, employee loyalty and also customer satisfaction (Xu and Goedegebuure, 2005). Many authors suggested that the positive relationship prevails between customer loyalty and business performance (Reichheld, 2000; Sheth and Parvatiyar, 1995). Loyal customers in addition to increase the value of the business also enable it to sustain lower costs than those attached with attracting new customers.

Internal Service Quality, Perceived Service Quality and Employee Satisfaction:

Internal service quality refers to the attitude that people have towards their jobs, colleagues and companies (Heskette et al., 2008). Whereas, Perceived service quality is regarded as the feeling customers have regarding the superiority and inferiority of the service provider (Tsoukatos and Rand, 2006). Many authors are of the view that the strategy that is considered essential and indispensable for success and survival in today's competitive and cutthroat environment is delivering service quality (Parasuraman et al., 1985).

These lead to the following hypotheses-

Hyp1: TQS leads to internal service quality;

Hyp2: Internal service quality leads to employee satisfaction;

Hyp3: Employee satisfaction leads to employee commitment

Hyp4: Employee satisfaction significantly affects employee performance

Research Design and Methodology

The study is evaluative in nature as it tries to establish the theoretical relationships between total quality service and financial performance through service profit chain. To prove the relationship following methodology has been adopted:

Generation of Scale Items

The survey questionnaire is composed of questions relating to eight scales viz; total quality service, internal service quality, employee satisfaction, employee commitment, employee loyalty, external service quality, customer satisfaction and financial performance.

The Total Quality Service questionnaire consisted of 91 statements on 7 point Likert scale, covering ten dimensions viz;

For the measurement of Internal service quality 22 statements with three dimensions from Lings (2004) were taken up.

The questionnaire for measuring employee satisfaction, customer satisfaction, employee commitment and employee loyalty has been adopted from Sureshchandar (2001) and Fuentes et al. (2007).

The questionnaire for measuring employee performance has been adopted from Fuentes et al. (2007) and Venkatraman and Ramanujam (1986) having five statements.

The scale for measuring external service quality has been adopted from Narver and Slater's (1990) 7- point rating scale with 15 items.

The questionnaire for measuring financial performance has been adapted from Fuentes et al. (2007) and Venkatraman and Ramanujam (1986). It consists of five statements. Financial performance has also been measured through objective criteria's like <u>sales growth and profits in</u> % age.

Sample Size and Design:

The study confines to the showroom cum service stations of major players of automobile industry i.e. Maruti Udyog, Hyundai Motor Ltd., Tata Motors Ltd. In order to avoid the problem of common method variance data have been collected from multiple respondents i.e. executives, employees and customers. All (85) executives, which include General Managers, Deputy General Managers, Managing Director, and Functional Managers of the showrooms, employees (380) and customers (289) in Jammu Province were contacted for primary data collection. Census method was used for collecting the data from executives and employees. The total number of customers was 10,800. To determine the final sample size, a pilot survey of seventy customers, selected conveniently, was conducted. The final sample size for customers comes to 289, which has been identified on the basis of pre testing results by the application of formula proposed by J.K Sharma (2007).

n=no N/no+(N-1)

Where no= $(Za/2)^2 * S.D^2/E^2$

(Za/2) = 1.96,

S.D= Standard Deviation,

E= Sample Error

The response rate from executives was seventy two percent, from employees it was eighty nine percent and for customers it was ninety three percent.

Data Analysis

The detailed result of exploratory and confirmatory factor analysis is as under:

Scale Purification-Exploratory Factor Analysis

The multivariate data reduction technique of factor analysis has been used for the study. It involved examination of inter-relationship among variables and reduction of large number of variables into few manageable and meaningful sets. Factor analysis was carried to simplify and reduce the data. It was carried with Principal Component Analysis along with orthogonal rotation procedure of Varimax for summarising the original information with minimum factors and optimal coverage. The study aims at using factor analysis, primarily because of its three general functions i.e. reducing the original set of variables to a small set, which accounts for most of the variance of the initial set; searching data for qualitative and quantitative distinctions and statistically testing of priori hypothesis about number of dimensions or factors underlying a set of data (Kaur et al., 2009). All the five major methodological issues that a researcher should consider when conducting a factor analysis (Fabrigar, 1999) were taken care of while pursuing factor analysis, as these decisions have an important bearing on the results obtained. These are: a) What variables to include (Cattell and Gorsuch, 1963), b) appropriateness of factor analysis, c) selection of appropriate procedure, d) number of factors to be included, and e) selection of appropriate rotational method.

Validity- Confirmatory factor Analysis (CFA)

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Confirmatory factor analysis (CFA) uses a multivariate technique to test whether a pre specified

relationship exists between the manifest and latent variables. It is used to provide a confirmatory

test of our measurement theory. It is a way of testing how well measured variables represent a

latent constructs (Demirbag et al., 2006). The items that emerged after EFA under the individual

factor were averaged for the application of CFA (Jones et al. 2001) and items with Standardised

regression weights (SRW) less than 0.50 were deleted (Hair et al., 2006).

Convergent validity

The authors suggested that if all the factor loadings of indicators on their constructs are

significant, convergent validity is attained. It can be established in three ways: Factor Loadings,

Average Variance Extracted and by Bentler-Bonnet Delta Coefficient.

Reliability

Reliability of the constructs has been checked through internal consistency by the application of

Cronbach's alpha (Cronbach, 1951) as well as by extracting the composite reliability with the

help of variance extracted. Alpha values equal to or greater than 0.70 indicate high construct

reliability (Nunally, 1970; O'Leary-Kelly and Vokurka, 1998). The alpha values for total quality

service ranged from 0.89 to 0.96 (Table 1), for internal service quality it was 0.954 (Table 2), for

employee satisfaction it was 0.974 (Table 3), For employee commitment it was 0.879 (Table 4),

for employee performance it was 0.952 (Table 5), for external service quality it 0.972 (Table 6),

for customer satisfaction it was 0.954 (Table 7) and for financial performance, it was 0897

(Table 8). Composite Reliability for all is above 0.70 (Table 10) during CFA.

Relationship between Total Quality Service (TQS) and Financial performance through

/Role of Service Profit chain

Structural Equation Modeling is a multivariate technique that seeks to explain the relationship

among multiple variables. In the present study, the relationship among total quality service,

internal service quality, employee satisfaction, employee commitment, employee performance, external service quality, customer satisfaction and financial performance have been assessed.

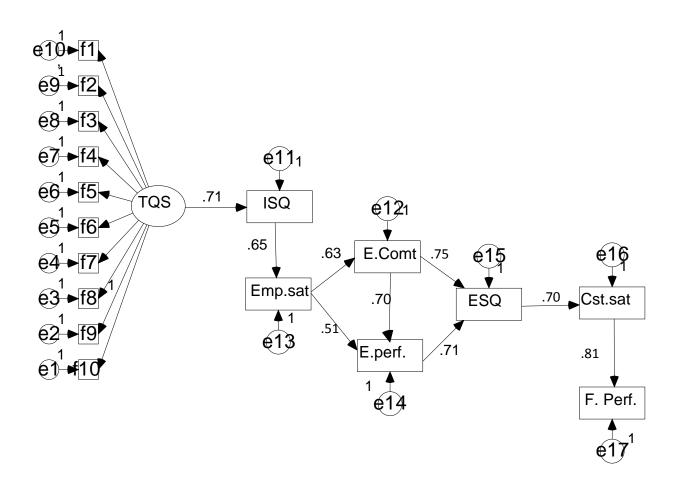
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First, a test of not-close fit was carried out for each model. The root-mean square error of approximation (RMSEA), a measure of model residuals, has been used in conducting this test. Since the upper bound of the RMSEA confidence interval for all of the models is quite below 0.10, the hypothesis of not-close fit could be rejected (MacCallum et al., 1996). Thus, it could be inferred that none of the models had a poor fit. Furthermore, to minimize the effect of sample size in assessing model adequacy, CFI and SRMR were used to assess model fit in addition to the χ 2 significance test, because CFI and SRMR are relatively unaffected by sample size (Hu and Bentler, 1998). The goodness-of-fit indices for the structural model, ($\chi = 33.651$, df = 6, $\chi = 2$ /df =5.608, GFI = 0.954, AGFI= 0.978, NFI= 0.965, CFI= 0.992, RMR= 0.034, RMSEA=0.062, Table 12) are well within the generally accepted limits, indicating a good fit. It supports the first hypothesis i.e., total quality service significantly influences internal service quality. The possible reason behind the significant impact of total quality service on internal service quality lies in the notion that total quality implementation in a service organisation brings all the people together to ensure and improve the services provided by improving the work environment, working culture and satisfaction level of employees. Thus it brings/ improves internal service .The second path traced the relationship between internal service quality and employee satisfaction. The standardised regression weight for the hypothesized relationship between internal service quality and employee satisfaction ($\beta = 0.65$, p<0.001, Table 12) is significant which **confirms the third** hypothesis that internal service quality significantly affects the employee satisfaction. The employees in an organisations where internal service quality is good are generally highly motivated and thus they reflect their satisfaction.

In internal service environments in which customers are highly demanding of employees, coupled with employees who in turn hold high expectations and satisfaction from their jobs leads to high commitment toward their job (path 3) and better performance (path 4). Thus our third and fourth hypothesis stands to be accepted i.e. employee satisfaction leads to employee commitment and employee satisfaction significantly affects employee performance. Satisfied employees always considered as a valuable asset for the organisation.

Conclusion and Recommendations

The novelty of this study lies in its inclusion of total quality service along with the components of service profit chain like internal service quality, employee satisfaction, employee commitment, employee performance, external service quality, and customer satisfaction while investigating the relationship between total quality service and financial performance in service sector. This paper investigated a link between total quality service and financial performance of the business through employees and customers variables that is core in a service profit chain. In this study, exploratory and confirmatory factor analyses have been used to produce empirically verified and validated underlying dimensions of various constructs. TQS provides a vision that keeps focus on quality and performance improvement. The result shows that total quality service directly affects internal service quality, internal service quality directly and positively affects employee satisfaction, employee satisfaction directly and positively affects employee commitment and employee performance as well as indirectly affects to employee performance through employee commitment. Employee performance and employee commitment, in turn, directly influences external service quality and external service quality in turn, positively affects customer satisfaction. Finally, customer satisfaction results in elevated profits i.e. financial performance. So showroom managers should devise such policies and HR practices that result in increased employee satisfaction that lead to increased customer satisfaction. The findings of the study suggest that an effective implementation of TQS system can positively influence organisational financial performance through service profit chain.



Key: F1- top management commitment, F2-Benchmarking,F3-Human Resource Management, F4-Technical system, F5.- Information analysis,F6- Service marketing, F7.- Social Responsibility, F8- Service culture, F9-servicescape, F10- Continues improvement, TQS-Total quality service ISQ- Internal service q

Table 1 : Summary of result	Table 1 : Summary of result from scale purification for Total Service Quality											
Total Service Quality	Factor	Mean	S.D	Alpha	Eigen	KMO	VE					
	Loading				Value							
MGT. COMMITMENT		5.80			1.233	0.806	78.82					
(F1)												
Mutual trust and respect	0.813	5.58	1.910									
Participative management	0.915	5.87	0.983									
Skillful supervisor	0.698	5.57	0.956									
Consensus approach	0.527	5.91	0.991									

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Planning and decision	0.862	5.45	0.876			
making						
Guidance to subordinates	0.838	5.62	0.873			
BENCHMARKING		5.69		2.10	0.789	74.77
(F2)						
Achieving Cust. satisfaction	0.749	5.66	0.982			
Training and development	0.768	5.75	0.863			
Customer satisfaction	0.783	5.66	0.823			
HRM (F3)		5.64		2.453	0.688	73.05
Inspection of vehicles	0.902	5.41	1.34			
Usage of quality circles	0.904	5.70	0.977			
Employees involvement	0.893	5.54	1.06			
Suggestions for innovations	0.920	5.58	0.653			
Effectiveness of quality	0.928	5.50	0.722			
circles						
TECH. SYSTEM (F4)		5.65		1.927	0.686	64.217
Redesigning of processes	0.806	5.70	0.550			
Time and Motion studies	0.866	5.66	0.637			
Documentation of ser.	0.726	5.70	0.690			
processes						
INFO.ANALYSIS (F5)		5.78		2.340	0.727	68.234
Market analysis	0.892	5.83	0.761			
Analysis of costs	0.818	5.79	0.721			
Market investigation	0.858	5.64	0.733			
SERVICE MKT. (F6)		5.67		1.908	0.657	64.836
Extended warranty	0.868	5.79	0.658			
Reminder letters to	0.823	5.75	0.675			
customers						
Information to customers	0.639	5.54	0.721			
SOCIAL RESP. (F7)		5.73		2.112	0.753	75.469
Disciplined behavior	0.838	5.91	0.653			
Customer satisfaction	0.826	5.66	0.637			
Equal treatment to all	0.908	5.70	0.690			
customers						
Establishment of service	0.875	5.83	0.816			
stations						
Value added services	0.893	5.58	0.717			
SERVICE CUL. (F8)		5.70		3.843	0.809	64.055

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Team work and human	0.808	5.70	0.750			
relations						
Trust and openness	0.872	5.79	0.832			
Make the right in first time	0.792	5.83	0.868			
Feeling of oneness	0.640	5.79	0.779			
Service to customers	0.894	5.62	0.923			
Importance to quality mgt.	0.771	5.50	1.142			
SERV. SCAPE (F9)		5.81		2.958	0.696	66.979
Neat and professional	0.893	5.79	0.721			
appearance						
Cleanliness practices	0.874	5.87	0.797			
Proper working environment	0.772	5.83	0.761			
Display boards	0.697	5.87	0.740			
Showroom's layout	0.565	5.83	0.701			
Product advertisement	0.796	5.87	0.679			
boards						
Display of service delivery	0.889	5.79	0.721			
status						
Attractive materials and	0.875	5.66	0.761			
colors						
C. IMPROVEMEN		5.72		3.060	0.762	68.253
(Factor 10)						
Strategic improvement	0.553	5.70	0.750			
Importance to quality	0.844	5.87	0.612			
Importance of work	0.908	5.83	0.701			
instructions						
Quality management	0.729	5.70	0.550			
systems						
Quality awareness	0.768	5.66	0.637			
programmes						
Autonomy in quality	0.835	5.75	0.675			
department						
Automated	0.840	5.58	0.829			
inspection/review/ checking						
Quality department data	0.792	5.70	0.750			
Total mean of TQS		5.70				

Table 2: Purification for Internal Service Quality Scale										
Statements	FL	Mean	Comm.	S.D	Alpha	E.V	KMO	VE		
All grievances are duly addressed	0.868	5.83	0.765	0.603						
Training is provided to low performing employees.	0.867	5.75	0.822	0.794						
Employees are rewarded	0.842	5.75	0.897	0.692						
Seminars/workshops are organized	0.855	5.83	0.753	0.730						
Regular staff meetings	0.823	5.57	0.765	0.581						
Efforts were made to find out employees' real feelings.	0.742	5.00	0.875	0.692	0.954	3.80	0.798			
Manager regularly talks to employees about their work.	0.809	5.41	0.887	0.644						
Manager meets employees at regular interval	0.906	5.33	0.786	0.701						
Regular staff appraisal is done.	0.835	5.58	0.754	0.829						
Manager interacts directly with employees.	0.699	5.34	0.689	0.579				72.00		
Management does a lot of internal market research.	0.755	5.48	0.876	0.672				72.00		
Total Mean and VE		6.087								

Table 3: Purification of Employee Satisfaction Scale										
Employee	Factor	Mean	Comm.	S.D	Alpha	0	KMO	VE		
Satisfaction Loading Value										

Grievance redressal	0.916	5.71	0.865	0.739				
meetings						11.678	0.876	71.00
Implementation of appraisal system	0.878	5.70	0.873	0.739	0.974			
Job satisfaction	0.867	5.83	0.920	0.692	0.974			
Monetary awards	0.892	6.04	0.768	0.615				
Freedom to do work	0.776	5.59	0.789	0.876				
Incentives for motivation	0.856	5.86	0.823	0.692				
Total Mean		5.73						

Table 4: Summary of result from scale purification for Employee Commitment											
Statements	Factor	Communalities	Mean	S.D	Alpha	Eigen	KMO	VE			
	Loading					Value					
Committed to	0.876	0.890	5.32	1.042							
philosophy of											
quality mgt.											
Employees	0.871	0.902	5.45	1.091							
commitment											
Accounting the	0.790	0.876	5.63	0.989							
competitors for											
planning and					0.879	4.532	0.789				
decision-making.											
Customer	0.821	0.897	5.87	0.976							
satisfaction.											
Employees as	0.776	0.789	5.79	0.956							
valuable asset.											
Proper guidance	0.699	0.821	5.99	1.450				72.35			
your											
subordinates.											
Committed to	0.854	0.934	6.01	1.230							

quality					
implementation.					
Total Mean and		5.723			
VE					

Table 5 : Summary of 1	Table 5: Summary of result from scale purification for Employee Performance										
Statements	FL	Comm.	Mean	S.D	Alpha	EV	KMO	VE			
The level of employee	0.876	0.932	5.67	0.923							
satisfaction is increased											
The employee turnover has	0.764	0.921	5.79	0.956							
decreased.											
Employee efficiency has	0.789	0.945	5.99	1.340	0.952	3.401	0.786				
improved.											
The level of absenteeism is	0.890	0.890	6.00	1.230							
reduced.											
Employee participates in	0.856	0.877	5.97	0.988				69.88			
managerial affairs.											
Total mean and VE			5.884								

Table 6 : Su	mmary of	mary of result from scale purification for External Service Quality									
Dimensions	Factor	Communalities	Mean	S.D	Alpha	Eigen	KMO	VE			
	Loading					Value					
Feed back for	0.635	0.504	5.460	1.25							
quality											
Improvement											
Reminders on	0.908	0.828	4.48	1.10							
time for due											
installment											
Reminders for	0.849	0.765	5.93	0.612							
after-sale											
services											
Sales staff is	0.775	0.611	5.996	0.844	0.972	2.789	0.780				
responsive and											
courteous											
New strategies	0.641	0.592	5.636	1.03							

for customer				
satisfaction.				
Service delivery	0.771	0.597	6.090	0.619
status is				
displayed in the				
showroom				
Modern services	0.751	0.565	5.906	0.776
like E-cash and				
cheques are used				
Customers'	0.796	0.633	5.425	1.154
complaints are				
properly				
addressed.				
Total mean and			5.615	
Variance				
Explained				

Tal	ole 7: Pur	ification fo	r Customer	Satisfac	ction Sca	le		
Customer	FL	Mean	Comm.	S.D	Alpha	EV	KMO	VE
Satisfaction								
Correct service	0.868	5.83	0.765	0.603				
delivery								
Feedback forms	0.867	5.75	0.822	0.794	-			
Technical capability	0.842	5.75	0.897	0.692	-			
Make customer feel safe	0.855	5.83	0.753	0.730				
Convenient working	0.823	5.87	0.765	0.581	0.954	6.80	0.754	
hours	0.023	3.07	0.703	0.501				
Customer delight in mind	0.742	6.00	0.875	0.692				
Handle customer grievances	0.809	5.91	0.887	0.644				

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Dissatisfaction analysis	0.906	5.83	0.786	0.701		68.00
Courteous employees	0.835	5.58	0.754	0.829		
Customers satisfaction	0.699	5.54	0.689	0.579		
Total Mean and VE		5.789				

Table 8: Purification of Financial Performance Scale								
Financial performance	FL	Mean	Comm.	S.D	Alpha	Eigen Value	KMO	VE
Competitive position	0.856	5.58	0.789	0.775				
Increase in profits	0.973	5.45	0.865	0.931				
Sales volume	0.921	5.58	0.874	0.880	0.897	2.558	0.701	
Market share	0.838	5.70	0.897	0.750				
Firm's reputation	0.734	5.66	0.786	0.816				
Total Mean and VE								62.793

Table 9: Fit Indices of CFA									
Constructs	χ2	DF	χ2/df	RMR	GFI	AGFI	NFI	CFI	RMSEA
TQS	75	30	2.500	0.015	0.956	0.869	0.964	0.993	0.065
Internal Service Quality (ISQ)	20.540	6	3.423	0.011	0.983	0.967	0.961	1.000	0.000
Employee satisfaction	15.675	6	2.612	0.042	0.958	0.899	0.936	0.960	0.042
Employee	36.0	10	3.600	0.023	0.982	0.923	0.945	0.978	0.031

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Commitment									
Employee Performance	61.24	17.88	3.425	0.017	0.922	0.976	0.934	0.982	0.023
External Service Quality	30.56	10	3.056	0.016	0.951	0.975	0.976	0.943	0.002
Customer Satisfaction	14.645	5	2.929	0.016	0.965	0.924	0.985	1.000	0.000
Financial performance	25.87	9	2.874	0.023	0.898	0.919	0.967	0.032	0.076

Table 10: Reliability and Validity Analysis							
Constructs	Construct Reliability	Bentler-Bonett Coefficient Delta	Cronbach's Alpha				
TQS	0.879	0.964	0.965				
Internal Service Quality	0.899	0.961	0.954				
Employee satisfaction	0.903	0.936	0.974				
Employee Commitment	0.945	0.945	0.879				
Employee Performance	0.890	0.934	0.952				
External Service Quality	0.965	0.976	0.972				
Customer Satisfaction	0.978	0.985	0.954				
Financial performance	0.946	0.967	0.897				

Relationship	Casual Path	SRW	CR	
Direct relationship	TQS→ Internal Service Quality (ISQ)	0.72	5.245***	
Direct relationship	ISQ→Employee Satisfaction	0.65	7.053***	
Direct relationship	Employee satisfaction→ Employee Commitment	0.63	8.617***	
Direct relationship	Employee satisfaction → Employee Performance	0.51	4.102***	
In direct relationship	ES → E. Commitment → E. Performance	0.70	3.805*	
Direct relationship	E. Commitment→ External Service Quality (ESQ)	0.75	7.562***	
Direct relationship	Employee Performance→ ESQ	0.71	7.201***	
Direct relationship	ESQ→ Customer satisfaction	0.70	7.874***	
Direct relationship	Customer Satisfaction→ Financial Performance	0.81	3.865*	

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