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Quality of Bus Services in Punjab: A Comparative Study of Public and Private Sector

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ABSTRACT

Bus transport also appears under the scope of service industry; and survival of any service industry depends on how well it serves and satisfies its passengers. A satisfied passenger is always the biggest asset of any service industry. If there is a gap between the expectations and perceptions of respondents, then, there is a need to improve the quality of services delivered by the organisation. SERVQUAL Model is based on five dimensions, viz. tangibility, reliability, responsiveness, assurance and empathy. To studv aualitv of bus services and perceptions' of passengers a questionnaire is framed out and it covers the five dimensions of service quality i.e., tangibility, reliability, responsiveness, assurance and empathy. The questionnaire designed for this research work is based on a 5-point Likert scale with the assigned

weights ranging from 5 (strongly agree) to 1 (strongly disagree). After analysis of different parameters of service quality, it is found that the quality of private sector bus transport is better than the public sector. The gap score in private sector is less as compare to public sector. Further, passengers were not satisfied which the quality of bus services in Punjab, but private sector give tough competition by try to capture the passengers by providing good services to public as compared to public sector.

INTRODUCTION

The activities which involved in producing intangible products as education, entertainment, food and lodging, transportation, insurance, trade, government, financial, real estate, medical, consultancy, repair and maintenance occupations are defined as services.

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Quality has become a strategic tool for obtaining efficiency in operations and improved business performance (Babakus and Boller, 1992). Transportation also appears under the scope of service industry; and survival of any transport industry depends on how well it serves and satisfies its passengers. A satisfied passenger is always the biggest asset of any service industry. With the advent of private and global players into this market, the competition has become still more stiff (Dhinakaran and Rajarajan, 2014). According to Silcock (1981), service quality in public transport industry includes as measures accessibility, reliability, the of comfort, convenience and safety. Traditionally, the performance indicators for public transport are efficiency and effectiveness. The efficiency includes the measures concerned with the process that produce the services, while the effectiveness determines how well the services provided are with respect to the objectives that are set for them (Pullen, 1993). A number of researchers have provided lists of quality determinants, the best known determinants emanate from Parasuraman and colleagues from USA, who found five dimensions of service quality, namely, tangibility, reliability, responsiveness, assurance and empathy; and used these as the basis for their service quality measurement instrument, **SERVQUAL** (Parasuraman et al., 1988; Zeithaml et al., 1990). Service quality is needed for creating customer satisfaction and customer expectations (Kabir and Carlsson, 2010). SERVQUAL Model is a gap score model which is based on the expectations and perceptions of the respondents, which is proposed by Parasuraman et al. (1985, 1988). It is a model which is used to check the gap between the respondents' perceptions regarding the services delivered by organisation and expectations of respondents regarding the quality of service delivered by the organisation. If there is a gap between the expectations and perceptions of respondents,

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then, there is a need to improve the quality of services delivered the organisation. SERVQUAL Model is based five on dimensions. viz. tangibility, reliability, responsiveness, assurance and empathy. Parasuraman et al. invented a set of 22 items/ parameters which were based on these five dimensions. In 1988, Parasuraman et al. developed a gap model which was based on the following dimensions:

Tangibility: Physical facilities like availability of buses, seats, personnel appearance.

Reliability: Ability to perform promised services with accuracy and at time.

Responsiveness: Ability to help customers with response and provide prompt service.

Assurance: Employees' knowledge and courtesy, and their ability to inspire trust.

Empathy: Individual attention to customers.

This model of service quality is derived from the magnitude and direction of five gaps which include consumer expectations-experience discrepancies in addition to the difference in service design, communications, management and delivery. The first four gaps affect the way in which service is delivered, and the existence of these four gaps leads to the extent of gap five.

expectations and managements' perceptions of those expectations, i.e., not knowing

between

consumers'

Difference

Gap

1:

what consumers expect.

service quality standards.

Gap 2: Difference between management perceptions of consumer expectations and service quality specifications, i.e., improper

Gap 3: Difference between service quality specifications and service actually delivered, i.e., the service performance gap.

Gap 4: Difference between service delivery and the communication to consumers about service delivery, i.e., whether promises match delivery?

Gap 5: Difference between consumer's expectations and perceived service. This gap



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depends on size and direction of the four gaps associated with the delivery of service quality on the marketer's side.

The service quality is a function of perceptions and expectations and modelled as:

$$SQ = \sum_{i=1}^{k} (P_{ij} - E_{ij})$$

Where, SQ = Overall service quality; K= number of attributes.

Pij = Performance perception of stimulus i with respect to attribute j.

Eij = Service quality expectation for attribute j that is relevant norm for stimulus i.

OBJECTIVES OF THE STUDY

- 1. To assess the quality of bus services provided by public and private sector in Punjab.
- 2. To assess the perception's of passengers regarding the quality of bus services in Punjab.

RESEARCH METHODOLOGY

A well-structured questionnaire was framed to know the perception and expectation of passengers about the quality of bus services in

Punjab. The perception of the passengers regarding the service quality has been studied on the basis of 5 parameters in the questionnaire. The questionnaire essentially framed around five dimensions of service quality i.e., tangibility, reliability, responsiveness, assurance empathy. The questionnaire designed for this research work is based on a 5-point Likert scale with the assigned weights ranging from 5 (strongly agree) to 1 (strongly disagree). With the help of certain statistical techniques such as Chi-square test and t-test, data was assessed to know the perception of passengers. In all 345 passengers were approached to collect the required data for the study. However, 150 questionnaires each were selected for the public and private sector on the basis of preferred mode of transport by the passengers. Hence, the sample size constituted 300 passengers. This study adopts the judgment sampling technique to ensure the representation of different sectors of transportation. The sample was collected mainly



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from the bus stands of Patiala, Bathinda, a period not less than 2 years in a particular Amritsar and Ludhiana cities. The universe of sector of transportation.

population is the bus passengers commuting for

COMPARATIVE ANALYSIS OF THE PUBLIC AND PRIVATE SECTOR BUS TRANSPORT SERVICES BY USING SERVQUAL MODEL

In this section, to make the comparison of the quality of bus service provided by the public and private sectors SERVQUAL Model is used. It shows the comparative analysis of gap score (P-E) obtained by the two sectors of bus transport system.

Assessment of the Tangibility Dimension of Service Quality

Table 1 shows the comparative analysis of tangibility dimension of public sector and private sector bus transport.

Table 1:
Comparative Analysis of Tangibility Dimension in Public and Private Sector Bus
Transport

Tangibility	Public Sector	Private Sector	T-value	P-value
	(P-E)	(P-E)		
T1	-0.21	-0.21	-3.301	0.000 *
Modern looking transport				
T2	-0.43	-0.26	-2.223	0.037 *
Bus is clean and hygienic				
Т3	-0.14	-0.30	-1.891	0.336
Employees wear uniform				
and dressed up				
T4	-0.33	-0.28	-2.113	0.296
quietness of the vehicle				
and system				
T5	-0.39	-0.09	-2.084	0.041*
Availability of seats				
Т6	-0.11	-0.13	-0.462	0.645
Comfort of seats inside				
buses				
T7	-0.26	-0.27	-0.196	0.842



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Temperature inside bus

Table 1 reveals that there is a significant gap between perception and expectation (P-E) of respondents regarding parameters *T1 (Modern looking transport)*, *T2 (Bus is clean and hygienic) and T5 (Availability of seats, which)* shows that there is significant difference between the gap scores of public and private bus transport sector. The analysis shows that the service quality of the private sector is

significantly higher than the public sector. If we compare parameter *T2* (bus is clean and hygienic) and parameter *T5* (availability of seats in buses), the negative gap score for these parameters is less in private sector as compare to public sector of bus transport. But in parameter *T1* (modern looking transport) negative gap score is same in public sector and private sector of bus transport.

Assessment of the Reliability Dimension of Service Quality

Table 2 shows the comparative analysis of reliability dimension of service quality of public and private sector bus transport.

Table 2:

Comparative Analysis of Reliability Dimension in Public and Private Sector Bus

Transport

Reliability	Public Sector	Private	T-	P-
	(P-E)	Sector (P-E)	value	value
R1	-0.45	-0.49	-0.141	0.891
Service performed right at first time				
R2	-0.67	-0.37	-2.123	0.034*
Time tables maintained at any cost				
R3	-0.54	-0.37	-1.005	0.313
Services are punctual				
R4	-0.63	-0.44	-2.267	0.516
Services are error free				

^{*} Represents level of significances at 5% level of significances



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R5	-0.53	-0.39	-1.026	0.295
Alternative service are always there in				
case of damage and accident				
R6	-0.27	-0.06	-2.186	0.046*
Reliable services provided to passengers				

^{*} Represents level of significances at 5% level of significances

Table 2 shows that there is a significant gap in parameter R2 (Time tables maintained at any cost) and R6 (Reliable services provided to passengers) of reliability dimension which shows that the quality of services of private sector is better as compare to the public sector.

The gap in these two parameters is lessor as compared to the public sector.

Assessment of the Responsiveness Dimension of Service Quality

Table 3 shows the comparative analysis of responsiveness dimension of service quality of public and private sectors of bus transport.

Table 3:

Comparative Analysis of Responsiveness Dimension in Public and Private sector of

Bus Transport

Responsiveness	Public sector (P-E)	Private Sector (P-E)	T-value	P-value
RS1	-0.34	-0.23	-0.810	0.403
Employees are always willing to help				
out				
RS2	-0.49	-0.24	-1.927	0.055
Employees always gives correct and				
prompt information regarding service				
RS3	-0.38	-80.19	-1.840	0.225
Employees responsiveness are backed				
by their knowledge and positive attitude				
RS4	-0.34	9-0.19	-2.120	0.411
Employees communicate with				
customers				
RS5	-0.39	-0.32	-0.613	0.712
Method of communication suits needs				
of customers				

^{*} Represents level of significances at 5% level of significances

Table 3 shows that all the parameters of

responsiveness dimension show insignificant



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difference between gap score of public and private sectors of bus transport. But table reveals that the quality of private bus transport sector is better as compare to public sector because the negative gap score of private sector is lesser as compare to the public sector bus transport.

Assessment of the Assurances

Dimension of Service Quality

Table 4 shows the comparative analysis of assurance dimension of service quality of public and private sector bus transport.

Table 4: Comparative Analysis of Assurance Dimension in Public and Private Sector of bus Transport

Sector of bus Transport					
Assurance	Assurance Public Sector Private Sector		Т-	P-	
	(P-E)	(P-E)	Value	Value	
A1	-0.38	-0.23	-1.131	0.259	
Operators provide immediate services when services					
are hampered					
A2	-0.39	-0.36	-0.189	0.786	
Employees are polite, proficient and well trained					
A3	-0.24	-0.04	-2.271	0.021*	
Operators had good customer complaint handling					
system					
A4	-0.37	-0.36	-0.145	0.879	
The behavior of operators still confidence in you					
A5	-0.41	-0.25	-1.154	0.338	
Feeling of security and safety from crime inside					
buses					
A6	-0.42	-0.40	-1.229	0.654	
Smoothness of ride and stops					
A7	-0.16	-0.22	0.462	0.645	
Fairness/consistency of fare structure					

^{*} Represents level of significances at 5% level of significances

Table 4 shows that there is significant gap in one parameter, i.e. A3 (Operators had good customer complaint handling system).

Where all the parameters of assurance dimension show negative gap-score and quality of these

parameters is unsatisfactory in both the sectors.

But the quality of private bus transport is better as compared to public sector because gap in public sector is higher as compare to private sector.



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Assessment of the Empathy Dimension of Service Quality

Table 5 shows the comparative analysis of empathy dimension of public and private bus transport sector.

Table 5:
Comparative Analysis of Empathy Dimension in Public and Private Sector Bus
Transport

Empathy	Public Sector (P-E)	Private	T- Value	P- Value
71	` /	Sector (P-E)		
E1	-0.44	-0.27	-1.159	0.241
Operators understand your specific needs				
E2	-0.40	-0.21	-1.966	0.047*
Operators always give passengers individual				
attention				
E3	-0.30	-0.11	-1.269	0.181
Operators gives attention to women, children				
and handicapped				
E4	-0.39	-0.23	-1.126	0.261
Operating hours are convenient to all				
commuters				
E5	-0.42	-0.08	-2.550	0.011*
Clear and timely announcement				
E6	-0.38	-0.32	-1.012	0.157
Availability of scheduled information by				
phone/internet				

^{*} Represents level of significances at 5% level of significances

Table 5 shows that the there is significant

gap in two parameters viz., E2 (Operators always give passengers individual attention) and E5 (Clear and timely announcement). It was analysed that the quality of services is better in private sector as compare to public sector because the negative gap score is lesser in private sector as compare to public sector.

FINDINGS OF THE STUDY

After analysis of different parameters of service quality, it is found that the quality of bus services is not good enough to satisfy the expectations of passengers. But in some extent the quality of private sector bus transport is better than the public sector because the gap score in private sector is less as compare to

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