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STRESS, COPING AND MENTAL HEALTH OF ARSENIC VICTIMS IN BANGLADESH

By Mahbuba Kaniz Keya

A Thesis Submitted to the University of Rajshahi in Fulfillment of the Requirements for the Degree of

DOCTOR OF PHILOSOPHY

Department of Psychology University of Rajshahi Rajshahi, Bangladesh

April, 2005

Dedicated to my mother,

Mastura Khanam

who, with reflections, ever fresh, of her husband – the fallen hero in another, waged an immolating lifelong war for our upbringing. The thought of making her proud had been the motivation that gave me the strength to see this thesis completed.

DECLARATION

I declare that the thesis, entitled: Stress Coning and Mental Health of Arsenic

3.2 Conceptual Framework In Bangladesh Railway Perspective

3.2.1 Historical Background Of Bangladesh Railway

The history of Bangladesh Railway goexclo to the middle of the nineteenth century which is now the largest mode of transport of the country. The history of this enterprise is a primordial record of at least 158 years. The contemporary communication system of the Indian subcontinent began in 400 through the steamer service as the standard of communication. Continuing this way, 'In 1843, at the time of his visit to Bhandup, the chief engineer of Bombay, Mr. George Clerk prepared a plan to connect Bombay with Thaney, Kollayan and Borghat through Railway service. On 13 July 1844, Mr. Clerk arranged a conference with the prominent Elites of Bombay on this regard. The chief justice, Sir Ercosin Perry presided over the conference. In this conference, it was projected to originate a Rail communication service between Bombay to Thalghat and Borghat by a Rail company, Bombay Great Eastern Railway Company of India. In the mean time, the Great Indian Peninsula Railway Company (GIPR) was established in England with the assistance of John Chapman, Messrs Wahand Borrett, Soliciter Whitehall London. GIPR articulated its first agenda on 15 July 1844. Baronet Sir Jamshedji Jijiboi was appointed the first director of GIPR. The famous inventor of Railway engine, Sir George Stephenson (1781 1848) was another dictor of GIPR. Robert Stephenson (180859), the son of Sir George Stephenson was appointed as the consultant engineer of GIPR also. At last, on the 1 August 1849, an agreement was signed between the Court of Directors of England and GIPR for collecting afund of 5, 00,000 pound within the 17 August 1849 to establish the railway communication system. On the 14 November 1849, J.J. Barkley was appointed was appointed as the chief engineer of the Indian railway. Barkley came to India on the February 1850 and concluded the survey within a year. At that period, Lord Dalhousie was the GovernorGeneral of the Indian subcontinent who took the vital role to establish Railway communication system in India as the most modern transportation system of the World. As the result of the attempt of Dalhousie, the first Railway communication system of India was fully established on the 16 April 1853 constructing 21 mile route track between Bombay and Thaney. On that memorable day, a train was driven from the Bory Bandar batyBetn

At the time of establishment, the Indian Railway sector was not an individual separate department or division of the Government. Firstly, it was not an individual separate department or division of the Government. Firstly, it was not an individual separate through the initiative of nongovernment organizations of both of England and India. Then it was directed by the Court of Director of England. After that, it was supervised by the Secretary of State of England. In India, thelway sector was controlled by the Military Board at first. in 1845, Lord Dalhousie founded the Public Workers Department (PWD) and attached the Railway sector under the supervision of PDB directing by a consultant engineer as the chief. In 1866, the railwasector was reformed as a branch or division under a Deputy Secretary of the Indian Government. In this way, through various change and diversity there founded a separate a railway Board in 1905 and the Indian Railway got the status of an individual instition. (Malik, 1962, p. 58) In order to spread Railway communication network among the whole India, the Government of India handed over the duty to some nongovernment company like:

a. Eastern Bengal Railway (EBR) : 1856 to 1947.
b. Northern Bengal State Railway (NBR) : 1878 to 1947.
c. Bengal Central Railway (BCR) : 1884 to 1947.
d. Assam Bengal Railway (ABR) : 1892 to 1947.

Except the above mentioned companies there were other small companies aphist in the role to connect different parts of India with a Railway network like: Shara to Sirajgonj, Mymensingh to Bhairab Bazar, Jessore to Zhenidah, and Khulna to Bagher (Maleir). 2007, p. 30) In this way, these companies made a large network walf India within short time.

On the 1 January 1942, The Assam Bengal Railway was taken by the state and was amalgamated with the Eastern Bengal Railway under the name of "Bengal and Assam Railway". At the time of partition of India in 1947, Bengas Am Railway was split up and the portions of the system about 1,618 miles (2,603.92 Km) long which fell within the boundary of erstwhile East Pakistan was named as Eastern Bengal Railway, the control remaining with the Central Government of Pakistan. It asketh effect from 1 February 1961, Eastern Bengal Railway was named as Pakistan Eastern Railway. Then, in the year,

Paksey. (Information Book: Bangladesh Railway, 1975, p. Ta) 2 June 1982, the management and development of the Railway was vested with a Rail Board, comprising a Chairman and four members. But for the administrative convenience and operational reasons, that Railwayoard was abolished with effect from 3 June 1982. Subsequently, two separate Administrative zones East and West, were created and two General Managers were appointed for the purposes of administration and operation of these zones. In addition, another Geneal Manager was appointed for implementation of major development projects; in particular, foreign aided ones. But the overall management and development of the Railway was vested with a Director General. The Director General also acts as the Secretary to the Minister in Railway Division of the Ministry of Communications.

Some Important Historical Events of the diversity of Bangladesh Railway (Information Book: Bangladesh Railway, 20) p. 1-4)

15 Nov. 1862: Construction of 35.11 Km. of Broad Gaugeinel between

Darsana and Jagati of Kushtia district by Eastern Bengal

Railway.

01 Jan. 1871: Extension of Darsanalagati Railway line up to Goalida by Eastern

Bengal Railway.

18741879 : Construction of Meter Gauge Railway line from Sara (near Paksey)

to Chilahati, Parbatipur to Dinajpur and Parbatipur to Kaunia and construction of Broad Gauge Railway line from Damukdia (opposite

to Sara) to Pradaha.

1882-1884 : Bengal Central Railway Company constucted Benapole

Khulna Broad Gauge Railway line.

01 Jul. 1884 : Government took over the management of Eastern Bengal Railway.

04 Jan. 1885: Railway Meter Gauge conntition between Dhaka to Narayangonj, a

distance of 14.98 Km. by Dhaka State Railway, which was later on

merged with Eastern Bengal State Railway.

1885 : Construction of Dhaka/ymensingh railway section by Dhaka State

Railway.

01 April 1887: Eastern Bengal Railway was merged with Northern Bengal State

Railway.

1891 : Construction of the AssamBengal Railway taken up with British

Government assistance but was later on taken over by ABeagal

Railway Company.

01 Jul. 1895: Opening of 149.89 Km. MeteGauge line between Chittagong and

Comilla and 50.89 Km. Meter Gauge line between Laksam and

Chandpur by Assam Bengal Railway.

03 Nov. 1895: Chittagong to Chittagong port line was constructed.

1896 : Construction of Meter Gauge line from Comilla to hakura and

Akhaura to Karimgonj.

1948-1949 : Government took over MymensinghBhairab Bazar Railway

Companyand RupshaBagerhat Branch Line Company.

21 Apr. 1951 : JessoreDarsona Railway line opened to traffic.

Oct. 1954 : Sylhet to Chatak Bazar Railwaine opened to traffic.

01 Feb. 1961: Eastern Bengal Railway renamed as Pakistan Eastern Railway.

1962: A Railway board was formed and management of Railway was

placed under the provincial government.

1972 : Pakistan Eastern Railway was renamed as **Bales**h Railway after

emergence of Bangladesh as sovereign state and continued to

function under a Railway board.

03 Jun. 1982: The Railway board was abolished and its function was placed under

the control of Railway Division of Ministry of Communicatism with the Secretary of the Division being Director General. For administrative convenience and operational reasons, BR was bifurcated into two zones, East and West zone, headed by two

General Managers.

12 Aug. 1995: Bangladesh Railway Authority (BRA) wasorfmed comprising 9

members with honorable minister for Ministry of Communications as

Chairman, for giving policy guidance of Bangladesh Railway.

23 Jun. 1998: East West Railway connectivity over the mighty river Jamuna was

established form the day on the day of formal opening of Jamuna Multipurpose Bridge, after completion of construction of Broad

Gauge track from Jamtoil to Ibrahimabad.

14 Aug. 2003: Direct communication between Dhaka (Joydebpur) and Rajshahi over

Jamuna Multipurpose Bridge was establed by introducing first inter-city passenger train after completion of construction of new

Dual Gauge track form Ibrahimabad to Joydebpur.

14 Apr. 2008: Direct communication between Dhaka and Kolkata was established

by introducing "Maitree Express" Tima

04 Mar. 2010: Introduction of Ticket selling through Mobile Phone.

3.2.2 Marketing Management Process In A Railway Environment

Marketing seeks to improve corporate profitability by modifying the Marketing Mix, consisting of the four variables, tleeven P's, just described, in order to satisfy customer wants and needs. Clearly, units of the organization other than the Marketing or Commercial department will also have an important "Marketing" role. In the case of railways, those departments with a imprary role in service delivery mainly the Operations, Mechanical Engineering and Civil Engineering Departments or crucially affect the quality and other characteristics of the Seven P's, and hence will have an important influence on the marketability of the railway product. However, it is the Marketing or Commercial

governments, to reverse the declining trend in their net financial results. Closely linked with this requirement is the need for railway organizations to be able to respond effectively to competition which could, if allowed to go unchedk drive down their net financial results to levels which would be politically unsustainable and might therefore lead to their demise. In this context, this section outlines the recent experience of some railway organizations of the ESCAP region.

3.2.4 The Place Of Marketing In The Railway Organization

3.2.4.1 Considerations For Railway Marketing Unit

The position of the marketing unit in the railway organization chart and the structure of the marketing unit itself are important considerations, sithow indicate very clearly the significance attached to the role of Marketing within the corporate organization and largely determine the effectiveness of the marketing function in achieving corporate goals. So, for the development of a Marketing capalyilicareful consideration should be given to the structure of the Marketing unit, the reporting relationships within this unit, and the reporting relationships between this Marketing unit and the senior corporate management positions in the overall organization. The structure and form of organization adopted desirably should permit:

- (i) Close and frequent communications between the Chief Executive Officer and the head of the Marketing unit, with both persons accepting a leading role in promoting a customer oriented marketing culture throughout the organization. (This is likely to require that the reporting line from the Chief Executive Officer to the head of the Marketing unit be as short as possible);
- (ii) Effective co-ordination of railway commercial and **ep**ational activities, perhaps suggesting that both functions should be integrated in an organizational sense;
- (iii) Integration of all elements of the marketing mix under a single management function, suggesting that responsibility for sales, market aneste and planning, pricing,

Figure-4
The Functional Department Model of Railway organization

Source: ESCAP: Guidelines for Development of Railway Marketing Systems and Procedures [http://www.unescap.org]

The secondisted form of organization, Marketing as a service department, involvesore passive role for Marketing in the corporate organization. Generally, this model integrates Marketing with the Corporate Planning function, under a single senior corporate manager reporting directly to the Chief Executive Officer. While this hasautheantage of integrating the lead planning role of marketing within the corporate planning structure, it could threaten the close contact, which should exist between marketing staff and railway customers, thereby reducing the marketing plan to an "acad'e privercise, devoid of customer inputs. It should be noted also that, almost by definition, a Corporate Planning unit within any organization has a coordinating function must assemble planning inputs from all other units in the organization. Arguably uch a unit would be no less effective in discharging this role if Marketing were to be organizationally independent of it, in the sense that Marketing would be just like any other unit of the organization, contributing planning inputs under the coordination of the central Corporate Planning unit.

the third listed form of organization (business units) with features of the second listed type of organization (marketing as a service department).

In 1992, the Malayan Railway or Keretapi Tanah Melayu (KTM) was separated from direct government budgetary control and restructured assaness enterprise under government ownership. The new corporatized organization, designated KTM Berhad, was built around an entirely new organization structure, which included Strategic Business Units, or SBU's, but also embodied some features of an degation with a Marketing cell functioning as service department.

There are four SBU's, of which three assenger Services, Freight Services and Commuter Services have a reporting line to the Director, Operation and Customer Service who is also responsible for the Operations or Traffic function. The fourth SBU, Property, has a reporting line to the Director, Property Manageme Thus three core business SBU's integrate marketing functions with some operating functions which pareifies to their busines (e.g. the Freight SBU has responsibility for wagon distribution, the Passenger SBU has responsibility for ticketing, etc Responsibility for advertising and promotion is, however, exercised by the Corporate Services Division, which is also responsible for coordinating the preparation of they for Corporate and annual Business Plans (with planning inputs from the SBU's which must prepare their own annual marketing plans). For this reason, the SBU's have a "dotted" reporting line to the Director, Corporatices.

However, there are, both within and outside the region, examples of large railway systems which have opted for complete separation of management responsibility for the marketing and operations functions. One such is the National Rail Corpolation Australia which transports all interstate rail freight. It has a Corporate Headquarters located in Sydney, a Marketing Headquarters located in Melbourne, and an Operations Headquarters located in Adelaide (which is some 778 km by rail from MelbournThe heads of the Marketing and Operations Divisions report directly to the Managing Director, based in Sydney. In this organization, only the operations and engineering functions are regionalized. To a large extent, the geographical environment in Whithe NRC operates, with a major concentration of railway customers in the east of the country, has dictated its organizational

It is important that the Matering unit should have responsibility for all seven elements of the Marketing mix. The unit will normally have four sections, each under a section manager, with responsibility for Sales, Planning/Market Research, Pricing and Advertising/Promotion. If justied by the workload, it may also be desirable to have a fifth department to provide advice to customers in logistics and materials handling matters (including the layout of rail loading/unloading facilities). Alternatively, responsibility for this function can rest with the Sales sectio

3.2.5 Role Of Marketing In Railway Corporate Planning

3.2.5.1 Importance Of Corporate Plan

Not all of the region's railways have so far implemented a corporate plan, but an increasing number are embracing a corporate planning philosophy. A well structured, practical corporate plan will ensure that an organization's resources and activities are always directed to the achievement of its own goals on the one hand and those of governments (and by inference taxpayers) of the other. Marketing can and must play a leading role in the corporate planning process by translating customer requirements into railway requirements for human physical and financial resources and management actions. The Railway Marketing Unit will also lave a key role, along with televel management in developing the spirit of marketing in other departments of the railway, notably the Civil Engineering, Mechanical Engineering and Operations departments. It is therefore essential that the marketing systemshould be an integral part of the railway corporate planning structure, which embodies a mixture of "top down" and "bottom up" planning philosophy.

3.2.5.2 Corporate Plan Linkages

In essence, a corporate plan will link together the plans of the function partments of a railway within a cohesive framework, which will also integrate planning inputs from external sources, such as the National Economic Development, or other government plans. One possible approach to a railway corporate planning proceils strated in Figure 4. In this process, interlinked plans are prepared at four levels the macroeconomic level in

Figure -5
The Railway Corporate Planning Process

Source: ESCAP: Guidelines for Development of Raway Marketing Systems and Procedures [http://www.unescap.org]

Next in the planning hierarchy below the level of the Corporate Manketing or Business Unit plans have the function of developing pricing, sales and promotional strategies aimed satisfying customer needs and maximizing revenue for the railway organization. Most importantly, they have the key function of translating the needs of the marketplace into requirements for railway service and resources in the form of manpower, route infrastructure, locomotives and rolling stock.

This type of mission statement should be backed up with more specific statements of the corporate aims of the organization.

3.2.5.3.2 Corporate Objectives

While the Corporate Mission Statem**sh**buld define the broad purpose and direction of the organization in the longer term, the Corporate Objectives will have a more specific focus. They should indicate the specific targets, both physical and financial, to be achieved by the organization with the tenure of the corporate plan. For example, they could incorporate cost recovery objectives, such as "Reduction of the operating deficit to \$ W million, by year X" or productivity improvement objectives, such as "Increase gross tones per annum per employee to Y, by year Z". They will provide a clear target at which the strategies and plans of all components of the organization will be aimed during the timeframe of the corporate plan.

3.2.5.3.3 Corporate Level SVOT Analysis

At the corporate levela SWOT Analysis should provide realistic assessment of the strengths, weaknesses, opportunities and threats working for or against the organization in its quest to achieve its corporate objective AOT factors may be assessed in relation both to the organization's external and internal environments. For an external SWOT analysis, the organization would need to assess the likely influence of factors external to the organization, which might present opportunities or threats for the organization. An example of an external opportunity might be the imposition they government of increased road user charges on commercial road transport operators, since this might have the effect of improving the competitiveness of rail in relation to road transport operators.

Conversely, an increase in allowable axle loads for trucks might be an externally imposed threat for rail, since it would reduce its competitiveness with road transport. Internal SWOT analyses on the other hand are intended to identify the SWOT factors or factors of its major competitors. They are intended to identify any positive or negative characteristics of the organization which must either be exploited or corrected to enable the organization to achieve its stated cateror bjectives. An example of an internal

3.2.5.3.7 Investment Plan

The Investment Plan details the organtizen's requirement for investment in new capital assets during the tenure of the corporate plan. The physical requirement of rolling stock and locomotives, extra track capacity or new line construction, and terminal infrastructure is identified and costein the plan. Again, these requirements are sourced from the assessment of a train operating plan which has its origins in the appraisal of customer needs in the Marketing plan.

3.2.5.4 The Railway Marketing Plan

3.2.5.4.1 Rationale & Goal

Apart fromits importance as the primary source of input of customer related data as well as of traffic and revenue forecasts to the Corporate Plan, the Marketing Plan has a vital role as the vehicle for expression of: the organization's commercial objectives; rategises for realization of these objectives; and the actions (with assigned responsibilities) necessary to implement the strategies. Necessarily, the focus of the Marketing Plan is at the level of individual traffic, or market, segments, and indeed arointagnt element of the Marketing Plan is the definition of these segments. Realization of objectives set for individual segments will collectively result in achievement of the overall corporate objectives as identified in the Corporate Plan. An essential unicement of any Marketing Plan is that it must be both practical and actionable.

3.2.5.4.2 Market Segmentation

A good Marketing Plan must contain techniques for segmenting the market. Markets consist of buyers and buyers are not homogeneous in terntise or demographic profiles, wants, purchasing power, geographical location, buying attitudes, and buying practices. Therefore it is unlikely that a broad marketing strategy applied across the entire spectrum of a railway's customers will succeed, becautise needs of some (or probably most) customers will not be met in this process.

Within the higher income, business or tourist segments thus identified in the Medingm Distance Passenger market, there may be a further subdivision into stansed segments (e.g. airconditioned sitting car services and aim ditioned sleeping car secres).

For Freight customers, the subdivision into market segments is likely to be based on a combination of commodity type and handling mode (bulk, bteak and container). Almost all of the region's railways now identify container traffic as a setgriments own right.

Other segments are mainly commoditysed. For example, in addition to containers, the Thai and Malaysian railways identify about-18 commoditybased segments and the Indian Railways 10 or 11 commodity based segments. Eaitghtrsegment generally has its own requirements in terms of loading/transport cycle, wagon type, handling method and tariff (price). Bangladesh Railway can easily identify several commoditised services like garments, bulk commodities and other exponents. The commodity segments actually identified will be of particular significance to the railway seeking to segment its markets.

While there appears to be no obvious basis for the segmentation of parcels and express freight traffic, it is likely that this market may be subdivided on the basis of time sensitivity (e.g. overnight delivery, second day delivery, etc.).

The Commercial Property Leasing market will desirably be segmented in terms of end use, e.g. Warehousing, Retail Trade, Office accomation, Hotel accommodation, etc., and possibly also in terms of lease tenure (short, medium and long term). Such as the Indonesian Railways with their Parahyungan and Argogede executive services between Jakarta and Bandung, and the Indian Railways with ith hatabdi and Rajdhani premium services between significant business centers and between the capital and significant business centers, respectively.

The present age is the age of tough competition. BR has to develop and apply some specific

strategic marketing plan to hold and increase market share. Some of the major strategies are

as follows:

1 Inherited physical and structural weakness with reduced to a minimum level by constructing new direct link route on priority basis.

- 2 Giving proper attention to time schedule, passenger comfort, and risk analysis quality of service will be increased.
- 3 Expired locomotives, coaching vehicles, **gwa**s will be replaced urgently.
- 4 Efficient and coordinated management system will be developed.
- 5 Special attention will be given to container handling in both zones.
- 6 Ensuring security and comfort as well as better services new markets willawtealttr
- 7 Proper utilization of railway lands and properties should be ensured.

3.2.5.4.5 Action Programs

Another important element of the Marketing Plan is the statement of actions needed to put the plan into effect and the assignment of responsibilistifor these actions. This feature of the Marketing Plan recognizes the vital role of Marketing in leading and coordinating all of the railway activities aimed at delivery of railway services to satisfy customer needs. Thus, actions will be required of llafunctional departments, but especially the Operations, Mechanical Engineering and Civil Engineering departments, to support achievement of the organization's commercial objectives. For example, if high standards of locomotive availability are necessaring order support frequent high volume traffics, then the Marketing Plan will require actions on the part of the Chief Mechanical Engineer and his staff to assure the necessary level of availability.

3.2.5.4.6 Traffic, Revenue And Profit Projections

Forecasts of traffic volume, revenue and financial contribution are important outputs of a Marketing Plan (and important inputs to the Corporate Plan). They are market segment related and are usually prepared as annual totals over a five year timescale.t In mos

CHAPTER FOUR

METHODOLOGY

The method of the study depends on the nature and purpose of the study. So every research study has its own individual method respectively. Methodology is the systematic and logical study of the principles of guiding scientificviestigation, Gould and Kolb, 1964, p. 425

Methodology plays a vital role in any research, but the methods in practical uses somehow differ from one research to another. Any scientific investigation requires one or more research methods which enablesearcher to conduct the study systematical escarch is a disinterested or unbiased search for knowledges a scientific effort of finding the truth. (Abedin, 1996, p.11)

Documentary analysis'K(othari, p. 117, Good and Scates, 1954, p.)630used in the present study. This is defined as an attempt to find out what has happened in the course of time and to correlate the events, within the limits of available material on the one hand and of the researchers' intelligence and understanding on **ther**, ointo a meaningful sequence(Abedin, p. 53)

A potential practical situation observation (thari, 1996, p. 117) and documentary analysis (Kothari, p. 117, Good and Scates, 1954, p. 6729) conducted for descriptive analysis.

Hence selection of a Wedefined method is inevitable for conducting any research work. The documentary method is widely used here to draw the inference from the compilation, analysis and interpretation of assembled data. Here, 'Op&worney' (Kothari, p.11)B is also used foqualitative judgments (Rummel, 1994, p.2) from lower class passengers upper dass passengers and iddle dass passengers at the field of Railway sector. For opinion survey 400 respondents were selected omly from the two divisions (Pakshi and Lalmonirhat) of the west zone of Bangladesh Railway.

communication in 1971 after the independence of the country through the liberation war of 1971. So, the research period is considered from 1971 to 2012.

4.3 Population

All the passenger slower class, pper class and middlelass) traveling by Bangladesh Railway are considered the population of the present study.

4.4 Sampling Technique

To analyze the First Objective of the study, Secondary data has been Ataquestionnaire related to the 2nd and 3d objectives of the study has been prepared by the researcher. Having prepared the questionnaire, a pilot study in the form of a preliminary try out has been conducted on a small sample to 20 respondents. The items of the questionnaire have been selected the basis of the findings of a pilot stud finen it has been implemented on the respondents and collected the raw data from their respansate questionnaire has been framed also to find out the stomer care satisfaction of passengers (low preparetuand middle dass) regarding the problems of Service Marketing of Bangladesh Railwarter that the primary data been put for analysis. In the present study, the Simple Random Sampling (SRS) technique has been followed to the cting primary data.

4.5 Sample Size

A total of 400 respondents constitute the sample of the present study. Among them 100 are the lower class assengers,00 are the upperlæsspassengersandthe rest 200 respondents are the middle classassengers raveling by railway in different times. The reason whind selecting more number of middle classassengers than that of other classes is that, researchers found this group of passengers replied more enthusiastically that is semigers of Bangladesh Railway are classified into the present study. Among them 100 are

selecting measuring instruments. Fourthly, personal competence of the investigator and ethical consideration for using the scale may accommisselecting a particular type of measuring instrument astly, the accuracy for scoring the data, the feasibility of using appropriate statistical technique and the interpretation of results may influence the instrument selection in an empirical study view of above considerations, a questionnaire has been developed the researcher for measuring threblems and has been used fortal collection in the present study.

Construction Of The Questionnaire From Pilot Study

A Pilot study (Kothari, p. 125) has been conducted in order to select the items of the questionnaise. First, the researcher has collected a range of information regarding the issue through interview, consultation and observation. 120 persons have been interviewed (35 lower class passengers35 upper tass passengerand 50 middle classpassengers). Albf them have been asktered express their opinionabout the existing service arketing situation of Bangladesh Railway he statements have been noted on the basis of their opinion and 49 items have been consisted under the supervision of the supervision study.

Then, the method of finding the Discriminative Power (DP) (Good and Hatt, p. 276) of each statement has been followed for primary item analysis. The method involves the pofocess identifying a statement which consistently separaters who are high from those who are low on the characteristics to be measured kind of item analysis used technique different from correlation technique letere, each item has been subjected measurement of its ability to separate the "Highs" find the "Lows". This is called the Discriminative Power (DP) of an item analysis used technique of its ability to separate the "Highs" find the "Lows". This is called the Discriminative Power (DP) of an item analysis in the "Lows". This is called the Discriminative Power (DP) of an item analysis of the support, support, support, scale ranging from 0 to 4 depending on unwilling to answer, low support, support, High support and Very High support This is called arbitrary method of weighting the response. After the first application on a sample of 120 respondents each item has been scored on the 0 to 4 scale points (Kothari, p. 105). The technique of finding the DP of the item the arbitrarily scored item for each subject has been summed upond the total scores for all the individuals have been arranged in order from the highest to the loweste first and the fourth quartiles of these scores have been calcula above. Who fall above Qand those who fall below Qave

Q.25 84 2.80 75 2.50 **0.30 Q.26 93 3.10 62 2.07 1.03 Q.27 79 2.63 68 2.27 **0.37 Q.28 85 2.83 59 1.97 0.87 Q.20 76 2.53 64 2.43 **0.40	•
Q.27 79 2.63 68 2.27 **0.37 Q.28 85 2.83 59 1.97 0.87	
Q.28 85 2.83 59 1.97 0.87	
0.20 76 2.52 64 2.42 **0.40	
Q.29 76 2.53 64 2.13 **0.40	
Q.30 106 3.53 73 2.43 1.10	
Q.31 108 3.6C 69 2.3C 1.3C	
Q.32 103 3.43 72 2.40 1.03	
Q.33 78 2.6C 65 2.17 **0.43	}
Q.34 96 3.20 63 2.10 1.10	
Q.35 103 3.43 68 2.27 1.17	
Q.36 99 3.30 74 2.47 0.83	
Q.37 87 2.90 58 1.93 0.97	
Q.38 81 2.70 55 1.83 0.87	
Q.39 72 2.40 63 2.10 **0.30)
Q.40 86 2.87 67 2.23 0.63	
Q.41 89 2.97 65 2.17 0.80	
Q.42 103 3.43 78 2.60 0.83	
Q.43 84 2.80 72 2.40 **0.40)
Q.44 73 2.43 58 1.93 0.50	
Q.45 88 2.93 52 1.73 1.20	
Q.46 94 3.13 66 2.20 0.93	
Q.47 85 2.83 53 1.77 1.07	
Q.48 97 3.23 61 2.03 1.20	
Q.49 73 2.43 62 2.07 **0.37	•

** Below 0.50 Value

Source: Survey data

The above analysis shows that 14 items have been excluded **wow IDP** below 0.5,0as a result, final lists of questionnaire contains 35 items. The selected 35 questions are classified into five major groups according to **Frice** Marketing Mixes as product, price, place, promotion and **pople**. That has been remained **final** form of questionnaire to be applied on selected respondents finally for collecting primary data.

4.7 Ethical Consideration

Throughout history, research has been shaped by ethical issues as these 'ethical decisions necessarily involve one's persormaorality' (Taylor and Bogdan, 1975, p. 295) thics has become a cornerstone for conducting effective and meaningful research, the ethical behavior of individual researchers is under unprecedented scrutiny (Best and Kahn, 2006;

anybody and has not undertaken the researmed lying the collection, analysis, and interpretation of data what is known as academic fraud.

The researcher has followed appropriate statistical techniques and methods for analyzing data. Computing of various percentages corresponding, coefficienatriation (CV), one sample ttest, pair ttest etc. have been done by applying SPSS and Excel software. The researcher finds out the relationship or differences supporting or conflicting original or new situation should be tested to determine withtwatidity data can be said to indicate any conclusion. Overall, the researcher has abided by the goldenoful elighly ethical behavior can be characterized as being fair, just and acceptable and Babin, 1997, p. 563).

articles, published dissertations written by eminent schollare been also considered as source.

Data Analysis Procedures

The Present research study has followed the chronological order of the specific objectives for the analysis of Data.

Objective One

To Analyze The Existing Service Structure OBangladesh Railway.

During the last decades, the shares of different modes have undergone major changes and in compensation with other countries, Road transport of the country has grown rampidly rail's share has slipped down considerably. Criticalyania of the efficiency of Bangladesh Railway points up the dramatically worsening operating ratio over the last decades. This raises the question 'how far will the present trends continue?' and 'is it not possible to upgrade the overall operating performa of BR at all?'

The pessimism as to whether Bangladesh Railway can, infact turn itself around its based on a number of consideration. The three critical ones appear to be:

The ongoing decline in Bangladesh Railway's operating performance.

BR's failure to meet its action placommitments on reform processes: and

BR's inability to get the political attention to resolve its problems.

Although some of the problems are well documented, others have curiously received little attention of any governments time past.

In the post liberation period and till early eighties Bangladesh Railway seemed to perform well, optimally realizing its full potential, of course, subjected to inherited structural and physical constraints. Current poor performance is usuallyeflex of poor operating performance due to inefficiencies/lower productivities both physical and human capital cost by development resource and institutional and policy constrations. in term

5.1 The Existing Service Structure Of Bangladesh Railway

5.1.1 The Network

Bangladesh Railway has a total of 2,835 route kilometers at the end of the ye202009 East zone has 1,266 route kilometers of Ntack only and West zone has 535 route kilometers of MG and 659 route kilometers of BG and 375 route kilometers of DG track. The total length of running track including tract on double line, in the yards and sidings is 3,974 kilometers(Information Book:Bangladesh Railway, 2012, p. 13)

5.1.2 Route Length By Civil Districts

Bangladesh Railway is not connected with all the civil districts of the country. At the end of 2008-2009 only 44 civil districts of the country could be connected by Railway. (Information Book: Bangladesh Railway, 2012, p. 13)

5.1.3 Tract Maintenance

Sophisticated tract maintenance methods are under active consideration of the Railway Administration to replace conventional methods. Mechanical tract lifting, slewing, tamping and laying machines have been introduced to Dhakattagong main line for tract maintenance. A tract recording trolley car is in .u. the formation Book: Bangladesh Railway, 2012, p. 14)

5.1.4 Bridges

At the end of 200\$2010, there were a total of 3,380 bridgef which 2,903 are minor and 477 are major ones. Foot owneridges are provided in important cities and district towns. (Information Book: Bangladesh Railway, 2012, p. 14)

modernize with computerized signaling and interlocking system. In **firest** pof the work 10 stations have already introduced computer base interlocking system including Akhaura and Sylhet station. Among the rests of 12 stations, 3 stations have already introduced computer base interlocking system and in other 9 stations, lisign warks are in process.

In LakshamNoakhali branch line section in 8 stations, Mechanical Semaphore Arm signal have already replaced by non interlocked color light signaling system.

In JoydebpurDhaka section, introduction of Duel gauge double lineamputer base interlocking system have been taken in hand & works progressing under (IRMOnation Book: Bangladesh Railway, 2012, p. 14,15)

5.1.8 Telecommunication

Till late eighties, Bangladesh Railway's most of the Telecommunication facilities outsed to taken on lease from Bangladesh Telegraph & Telephone Board (BTTB). These facilities were land line based, prone to interference and unreliable. In 1984 BR went for the modernization of its Telecommunication facilities. BR has an optical fiber bagited distelecommunication network. The telecommunication network spans approximately over 1800 kms. And connects about 300 Railway stations. The system also serves about 1100 users through 10 exchanges. In addition to 1100 dial up type digital telephories, BR Telecommunication system provides about 300 train control Telephones and the same station to station telephones. Copper conductors are used for Block Instruments and the Block Telephones. Computerized Seat Reservation and Ticketing System (CSRTS) and Computerized Wagon Control System (CWCS) have been installed using this network. (Information Book: Bangladesh Railway, 2012, p. 16)

5.1.9 Locomotives

Bangladesh Railway now has basically two types of locomotives viz diesel Electric (DE) & Diesel Hydrauic (DH). The total fleet as on 30 June 2009 comprised 253 Diesel Electric (69 BG, 185 MG) and 26 Diesel Hydraulic (3 BG& 23 MG) locomotives.

5.1.13 Mechanical Workshops

Bangladesh Railway has sheds, depots and workshops for maintenance of Roding Sto Locomotives are maintained in 3 (Three) places viz shed, shop and CLW, Carriage and Wagons are maintained in two places i.e. C & W Depot and Workshop. (Information Book: Bangladesh Railway, 2012, p. 18)

- I) Locomotives Are Maintained In Following Workops
 - 1. Central Locomotive Workshop at Parbatipur, Dinazpur (CLW)
 - 2. Diesel Workshop at Pahartali, Chittagong.
 - 3. Diesel Workshop, Dhaka.
 - 4. Diesel Workshop at Parbatipur, Dinazpur.
- ii) Carriage & Wagons are maintained in following workshops
 - 1. C & W Shop at Saidpur, ilphamari.
 - 2. C & W Shop at Pahartali, Chittagong.

5.1.14 Railway Ferry Services

There were 28 marine vessels under Mechanical Department at the end of the year 2008 2009. The fleet of the marine vessels consists of two passenger vessels, 4 Tugs, 4 Wagon Ferry Barges, 5 Pontoon ramps, 4 Flats and 2 Berthing pontoon and 7 other crafts. (Information Book: Bangladesh Railway, 2012, p. 18)

5.1.15 Stores

Railway Material Management Department known as the Store Department of Bangladesh Railway carries out the esponsibilities of assessment, purchasing, inspecting, stocking, preservation and supply of the materials as required and demanded by different using departments. Apart from the nonecruiting items, about 35,000 items are stocked in the

main depots at Phartali and Saidpur and also at Diesel Sub Depots at Parbatipur, Dhaka and Pahartali for diesel spares.

The department also owns a modern offset printing press where intercity tickets, Printed Card Tickets and all sorts of money value forms are printed samplied against the demand received from the user departments.

5.1.16 Passenger Traffic

Bangladesh Railway is the principal mode of transportation of the country. With the development of road transport facilities there has been a shift in the **trepadssenger** traffic with short distance passengers preferring road transport, because of their frequent and point to point services. During 2002009 about 65 million passengers were transported by Bangladesh Railway against about 54 million during 220008. In order to render better services to the passengers, Bangladesh Railway introduced Intercity Train services in 1985. At present there are 70 Intercity Trains. Around 36.8% of the total passengers of Bangladesh Railway are being carried by the intercent which contribute approximately 79.2% to the total earning of passenger traffinformation Book: Bangladesh Railway, 2012, p. 19)

5.1.17 Trade Union

There are 8 registered trade unions in BR to maintain a healthy relation between the employees and administration to pave the way for congenial working atmosphere on the system.(Information Book; Bangladesh Railway, 20122.)

5.1.18 Social Cost

The BR is one of the largest government enterprises in the country and constitutes so to say the 'life line' of the nation. The network of Railway not only serves the country's trading community but also plays a vital role in the seetconomic development and industrialization of the country. Although BR is expected to serve both as a commercial enterprise and as a public utility service but, as a commercial enterprise, it has an obligation

 The maintenance of law and order at stations and in standing passengers trains, prevention of overcrowding.

- 4. Watching, loaded passenger trains wh**anding** in the station.
- 5. The arrest of those found committing nuisances or suffering from infectious disease and keeping the Station Premises clear of Idlers and Beggars.
- 6. The examination of all empty carriages on arrival at terminal station for property left behind by passengers and to see that carriage fittings have not been tampered with.
- 7. The removal of bodies and persons dying in the train and on station premises and the conveyance to hospital of the sick people.
- 8. Investigation into cognizable offences coitted with Railway limits and presentation of the same.
- 9. The Arrest offenders in cognizable cases and detention of them in custody as well as persons arrested by Railway officers and made over to the police, and their production before the Magistrate.
- 10. The Reporting of no cognizable case or infringement of byelaws of the line to proper authorities as also all instances of oppression or fraud on the part of Railway subordinates or others.
- The prosecution of cognizable case as well as no cognizable cases
 Railway Act, 1890 on behalf of the management.
 (Information Book: Bangladesh Railway, 2012, p. 25)

The Railway Nirapatta Bahini

The responsibility of producing security to the Railway men, Railway properties and the properties entrsted to it for carrying falls under the duties of Railway Nirapatta Bahini (RNB).

Railway Nirapatta Bahini Is Responsible For

- 1. Prevention and detection of crime on the Railway.
- 2. Protection and safeguarding the Railway properties.

Chapter: 5 Page No: 87 Figure-6 Organizational Structure Of Bangladesh Railway Source: Information Book: Bangladesh Railway, 2012, p.9

Table-3 Organizational Structure Of Bangladesh Railway Staffs

		Designatior	Duty
SI.		Boolgilation	
01	a.	Potter	Office Bearer of Goods Carrier
01	b.	MLSS	Office Bearer of Goods Carri
02	a.	Tally Clerk	Counting Goods
02	b.	Train Number Taker (TNT)	Counting Loaded Goods in Trains
03.	a.	Goods Clerk (Grade: I	Booking Good
03.	b.	Parcel Clerk (Grade:	Booking Parce
	C.	Booking Assistant (Grade: II)	Selling Ticket
	d.	Ticket Collector (T. C	Collecting or Checking Ticket :
	u.	Ticket Collector (1. C	the Stations
	e.	TRC	Counting the Shifted Goo
04.	a.	Goods Clerk (Grade: I)	Booking Goods
	b.	Parcel Clerk (Grade:	Booking Parel
	C.	Booking Assistant (Grade:	Selling Ticke
05.	a.	Head Goods Clerk	Supervising of GCs
	b.	Head Parcel Clerk	Supervising of PCs
	C.	Head Assistant Cle	Supervising of BA
	d.	Head Ticket Collector	Supervising of TCs
	e.	Train Ticket Examine(T. T. E)	Collecting or Checking Ticket in
			the Trains
06.	a.	Junior Traffic Inspector c	Supervising of TTE
		Commercial (JRI)	
07.	a.	Senior railway Inspector (SRI)	Supervising of TTEs
	b.	Traffic Inspector of Commercial (TIC)	Supervising all below commeial Staffs
	C.	Traffic Inspector of Transportatic	Supervising all belov
		(TIT)	Transportation Staffs
	d.	Traffic Inspector of Audit (TIA)	Auditing the Commercial Account
08.	a.	Assistant Commercial Officer (ACI	Supervising all below commerci Staffs
	b.	Assistant Chief Commercial Manage (ACCM)	rManagement of Commercial Staff
	C.	Traffic Account Officer (TAO	Auditing the Commercial Accour
	d.	Accounts Officer (AO	Auditing the Commercial Accour
09.	a.	Divisional Commercial Officer (DCO)	Supervising all below commercial Staffs
	b.	Additional CCN	Management of Commercial Sta
	C.	Divisional Finance Advisor (DF/	Financial Adviso
	d.	Divisional Accounts Officer (DAO)	Auditing the Commercial Account
	e.	Additional FA & CAO	Financial Advisor
10.	a.	Divisional Railway Manager (DRN	Supreme Manageme
11.	a.	Chief Commercial Manager (CCM)	Top Most Management
	b.	FA & CAO	Top Most Financial Advisor
			1

Source: Staffing Pattern of BRTraffic -Commercial Sector: AscendingOrder

5.1.20 Number Of Officer And Staff

As on 30th June, 2012 there are 409 Officers and 285602 of different categories. The Staffs are graded/Classified as ClassIV Staff. The ratio of officers and staffs is about 1.67(Information Book: Bangladesh Railway, 201222)

5.1.21 Training

Bangladesh Railway has got a built in seyst of imparting training to Railway officials including BCS officers and all categories of regenzette staff to enable them to improve their skills and ability. For safe and efficient operation of the Railway a well equipped and modern railway training actemy has been established in 1984 which is now located at Halishahar, Chittagong. Four workshop Training units at Pahartali, Dhaka, Parbatipur and Ishurdi have been transferred under the control of Rector/Railway Training Academy, Halishahar, Chittagong ver 03.01.04 for imparting training in locomotive maintenance and operations staffs of mechanical department. In the year-2201tbtal 309 persons of different categories were trained including 34 no. BCS calificers (Information Book; Bangladesh Railway, 2012, P22)

5.1.22 Financial Summary

The total operating revenue without considering the effect of public service obligation (PSO) and welfare grant of Bangladesh Railway for the year-2009 mounted to TK. 563.04 million. After meeting the total epating expenses of TK. 11272.79 million, the net operating income for the year came +00T(K. 5609.75 million.

On the other hand, Government paid an amount of Tk. 860.00 million and Tk. 208.57 million as PSO compensation and welfare grant respectives year result, total operating revenue duly considering the effect of PSO and welfare grant for the year12009 amounted to Tk. 6731.62 millionSo, after meeting the total operating expenses of Tk. 11272.79 million, the net operating income for the yearectom(-) Tk. 4541.17 million.

Table- 4
FINANCIAL SUMMARY

Item		196570	2008-09	200610	(+)/(-)	Comparison with
						200910 to 200 & 09
					200010 10 20000	
PLANT :						
Routekilometers			2,835.04			
Trackkilometers		4,448.02	3,973.49	3,973.49		
Locomotives						
Steam		343				
Diesel		143	279	248	(-)	11.11
Coaching vehicles (in	units)					
Passenger carriages		1,165	1,451	1,445	(-)	0.41
Other coahing vehicle		478	35	33	(-)	5.71
(including department	al					
vehicles)						
Freight wagons (include	ding					
departmental wagons)						
In units		16,823	8,998	8,902	(-)	1.07
In terms of fourwheele	rs	19,616	11,9 9	11,821	(-)	0.74
Service (Figures in mil	lions)					
Passenger carried		72.9	65.0	65.6	(+)	0.92
Passenger kilometers		3,317	6,801	7,305	(+)	7.41
Tonnes carried		4.88	3.01	2.71	(-)	9.97
Tonne kilometers		1,265	800	710	(-)	11.25
Operations :						
Vehiclekilometers						
pervehicle day on line						
Passenger E	3G	243	366	368	(+)	0.55
Carriages N	/IG	211	264	265	(+)	0.38
Other coaching E	3G	145	144	145	(+)	0.69
Vehicles N	/IG	79	90	90		
Operations-Contd.						
Average number	BG	16	23	39	(+)	69.57
of passengers per	MG	19	26	30	(+)	15.38
4-wheeled vehicle					. ,	
Average number of	BG	220	409	434	(+)	6.11
passengers pteain	MG	315	505	549	(+)	8.71
Wagorkilometersper	BG	24.5	136.0	29.2	(-)	78.50
wagon day on line	MG	29.3	10.7	17.3	(+)	61.68
Average wagon load	BG	13.7	25.7	25.1	(-)	2.33
during the run(in tones		9.3	10.4	8.58	(-)	17.5
Wagons per train	BG	41.9	50.4	50.5	(+)	0.20
. agono por train	MG	50.1	46.9	46.9	(+) 	
Net load per	BG	338	752	733	(-)	2.53
train (in tonnes)	MG	320	397	317	(-)	20.15
,		229	2043	424		79.2
Net tonnekilometers	BG	229	2043	424	(-)	/9.2

Item	196570	2008-09	200610	(+)/(-)	Comparison with
					200910 to 200 & 9
EMPLOYEES:					
Number of employees	55,825	30444	27971	(-)	8.12
Number of employees per					
1,000 trainkilometers	3.23	1.93	1.76	(-)	8.80
Cost of Employees in crc (Taka)	12.37	401.89	435.56	(+)	8.37
Average cost per employee					
per month (Taka)	185	12711	12976	(+)	2.08
Percentage of cost		·			
employees to	48.9	39.6	38.6	(-)	2.52

Source: Information Book; Bangladesh Railway, 2012, P26

From the following ables some facts and figures of Bangladesh Railway service can be seen

		ý													
		Figures are in Kilometers	E,	Total	2768.37	2765.99	2854.96	2854.96	2854.96	2835.04	2835.04	2835.04	2835.04	2835.04	
		s are in k	Total System	West Zone	1489.28	1489.28	1578.25	1578.25	1578.25	1568.83	1568.83	1568.83	1568.83	1568.83)e mixed
		Figure	ĭ	East Zone	1279.09	1276.71	1276.71	1276.71	1276.71	1266.21	1266.21	1266.21	1266.21	1266.21	etre Gauç
.0123 3				Total		-	365.00	365.00	365.00	374.83	374.83	374.83	374.83	374.83	ad and Me
Railway, 2			DG	West Zone	ı	-	365.00	365.00	365.00	374.83	374.83	374.83	374.83	374.83	Both Broa
gladesh F	ERS			East Zone	ı	ı	ı	ı	ı	ı	ı	ı	ı	ı	Gauge (
ook, Ban	ROUTE KILOMETERS			Total	936.25	936.25	660.22	660.22	660.22	659.33	659.33	659.33	659.33	659.33	G = Dual
(Source:Information Book, Bangladesh Railway, 20123 3	ROUTE P		BG	West Zone	936.25	936.25	660.22	660.22	660.22	659.33	659.33	659.33	659.33	659.33	(MG = Metre Gauge, BG = Broad Gauge, DG = Dual Gauge (Both Broad and Metre Gaug)e mixed
urce:Infor				East Zone	ı	•	ı	ı	•	ı	1	ı	ı	ı	= Broad
Table-6 (So				Total	1832.12	1829.74	1829.74	1829.74	1829.74	1800.88	1800.88	1800.88	1800.88	1800.88	auge, BG
Tab			MG	West Zone	553.03	553.03	553.03	553.03	553.03	534.67	534.67	534.67	534.67	534.67	Metre Ga
				East Zone	1279.09	1276.71	1276.71	1276.71	1276.71	1266.21	1266.21	1266.21	1266.21	1266.21	= MG
			Year	July-June	2000-2001	2001-2002	2002-2003	2003-2004	20042005	2005-2006	2006-2007	2007-2008	2008-2009	2009-2010	

Table-9 Summary Of Rolling Stock

	Stock	В	G	M	IG	To	otal	
ives	Steam	•	-		-	-		
Locomotives	Diesel	7	8	2	80	2	86	
Гос	Total	7	8	2	08	2	86	
Sé	Passenger Carriages	32	22	11	150	14	172	
Carriages	Other Coaching Vehicles	4	1	33		37		
Ö	Total	32	26	11	183	15	509	
		Units	4-W	Units	4-W	Units	4-W	
Freight	Covered Wagons	1190	1642	5760	6283	6950	7925	
Frei	Special Type Wagons	726	1025	2294	4158	3020	5183	
	TOTAL	1916	2667	8054	10441	9970	13108	

Note: 4-W = Four Wheelers

Source: Information Book: Bangladesh Railway, 2012, p.46

Table-12
Punctuality Of Passenger Trains(BG & MG)

Year		BG			MG	
	Intercity	Mail &	Local	Intercity	Mail &	Local
July- June	Trains	Express	Trains	Trains	Express	Trains
		Trains			Trains	
1969-70	-	90.5	90.1	-	72.4	79.C
2001-02	77.5	31.7	54.2	73.8	65.3	63.1
2002-03	61.8	37.2	44.4	70.7	57.5	63.3
200304	64.5	43.8	40.7	79.8	60.9	59.7
200405	61.4	44.3	31.7	69.8	60.5	57.2
200506	78.9	48.8	38.0	62.8	50.7	58.9
200607	81.9	59.5	47.4	68.9	50.9	68.4
2007-08	90.7	89.4	3.86	63.2	63.7	79.C
2008-09	88.3	83.6	62.3	61.0	65.5	83.1
200910	67.3	71.4	58.5	69.3	57.5	72.0

Note: The figures of the passenger and mixed trais for the year 196970 have been included in local trains.

Source: Information Book: Bangladesh Railway, 2012, p.68

Table-13 Coaching Vehicle Performance(BG)

YEAR	Vehicle k	ilometers	Percer	ntage of	Average	Average
1				•	_	_
JULY - JUNE	•	le day on	average			number of
	lir	ne		under or		rpassengei
			awaiting re	pairs daily	per	per train
			to avera	age total	vehicle	
			numbei	on line		
	passenge	other	passenge	other		
	carriages	coaching	carriages	coaching		
		vehicles		vehicles		
196970	243	145	12.6	11.0	16	220
2001-02	226	126	31.7	19.0	14	192
2002-03	229	152	28.1	19.C	15	209
200304	257	192	20.6	22.0	17	242
200405	276	276 147		9.52	16	256
200506	278 157		23.25	14.2	19	303
200607	296	169	24.4	8.12	20	322
2007-08	343	151	25.5	8.16	22	398
2008-09	366	144	20.5	19.0	23	409
200910	368	145	22.1	14.3	39	434

Source: Information Book: Bangladesh Railway, 2012, p.8

		TAE	TABLE NO: 16 (SourceInformation Book: Bangladesh Railway, 2012, 2/10 OPERATING REVENUE AND OTHER PERCENTAGE	16 (Sourc ATING F	se:Informative:	tion Book E AND	E NO: 16 (Source:Information Book: Bangladesh Railway, 2012 OPERATING REVENUE AND OTHER PERCENTAGE	esh Railw PERCEI	'ay, 201 NTAGI	2, p2)1(E	0		
											TAKA	IN THOI	TAKA IN THOUSANDS
YEAR	раѕѕен		other		freight		Miscell-		Sale		Rec		Total
JULY-	ger		coach		earnings		aneons		ð		eiva		
JUNE	earnings		ing				earnings		Land		ple		
		%	earnings										
	ᅷ		ᅷ	%	ᅷ.	%	ᅷ	%	놙	%	축.	%	¥.
196970	101711	33.6	25737	8.49	169422	55.9	6169	12.04					303039
2001-02	1589163	40.9	95883	2.50	1465862	37.7	733077	18.9	i			i	3883985
200203	1611062	38.3	100201	2.40	1449546	34.5	1040167	24.8	•		1	-	4200976
200304	1732435	44.0	104304	2.60	1343592	34.1	761384	19.3	•	,	ı	-	3941715
200405	1661041	37.3	101300	2.30	1262223	28.3	1431677	32.1	1	,	ı		4456241
200506	1749986	39.4	97190	2.10	1268717	28.6	1326860	29.9					4442753
200607	1831477	40.45	90951	2.01	1245363	27.51	1359815	30.03					4527606
2007-08	2240468	39.89	97029	1.73	1410375	25.11	1868589	33.27	1				5616441
200809	2715962	43.43	107977	1.73	1313678	21.00	2115911	33.84	ı			ı	6253528
200910	2917686	51.52	116577	2.06	1165778	20.59	1463001	25.83					5663042

	Stores	1974	1032	1012	975	1022	1021	1044	988	931	861
	Medical	3204	1505	1446	1400	1429	1403	1332	1250	1180	1132
, 140)1	Electrica 	2160	1897	1841	1781	1865	1821	1814	1760	1644	1493
_E-18 (Source:Information Book: Bangladesh Railway, 2012, to)) DEPARTMENT WISE NUMBER OF EMPLOYEES	Traffic	11885	7147	9002	2000	2269	6703	6481	6255	6012	5361
.E-18 (Source:Information Book: Bangladesh Railway, 2012 DEPARTMENT WISE NUMBER OF EMPLOYEES	mecha	20005	10926	10624	10534	10952	10749	10409	0066	9392	8519
ok: Bangla IMBER C	estate		213	208	195	201	198	195	190	181	170
nation Boo VISE NU	signal & Tele commun ication		1440	1420	1425	1472	1443	1409	1412	1379	1305
urce:Inforr IMENT V	engineer	12019	6747	0959	6303	6150	2982	5775	2200	5285	4918
E-18 (So DEPART	accounts	1440	1364	1341	1289	1257	1214	1150	1089	1019	941
TABL	Nirapat ta bahini		2029	2031	2043	2587	2449	2408	2401	2369	2273
	Admin- istration	3138	1240	1238	1223	1260	1223	1178	1129	1052	866
	YEAR JULY - JUNE	196970	2001-02	2002-03	200304	200405	2005-06	200607	2007-08	200809	200910

Table-21 Number And Cost Of Employees

YEAR July- June 1969-70	Total number of employees	Total cost of employees (Thousands Taka)	Number of employees per 1000 train kilometers	Average cost per employee per month (Taka)	Percentages of cost of employees to total operating expenses (percent)
1969-70	55825	12371	3.23	185	48.9
2001-02	35540	2417578	2.41	5669	45.1
2002-03	34727	2451926	2.37	5864	41.8
2003-04	34168	2569673	2.28	6267	40.2
2004-05	35172	2882108	2.28	6829	41.5
2005-06	34206	3259014	2.25	7940	33.9
2006-07	33195	3680800	2.19	9240	39.4
2007-08	31874	423760(2.05	11079	38.9
2008-09	30444	4018992	1.93	12711	39.6
2009-10	27971	4355686	1.76	1297€	38.6

 $^{^{\}ast}$ Excludes ϖst of superannuation allowances and pensions, contribution to provident fund and gratuities.

Source: Information Book: Bangladesh Railway, 2012, p.19

	unsuitable service structure			
Q.7	Punctuality of trains is not	87.75	91.00	92.25
	impressive.			
	Maximum Suppo	88.50	93.88	96.00

Source: Survey data

Table exhibits the percentage corresponding to the opinions of the respondents on existing Service offered by Bangladesh Railway.

Here the variable Q.1 is highly supported (96.00%) the Upper class passengers Q.2 is highly supported by (94.00%) by the Upper class passengers. Q.3 is highly supported (93.50%) by the Middle class Passengers; Q.4 is highly supported (91.25%) by the Upper class passengers. Q.5 is highly supported (94.00%) the Middle class passengers, Q.6 is highly supported (93.75%) by the Upper class passengers and Q.7 is highly supported (92.25%) by the Upper class passengers.

Table-23:
Co-efficient of Variation (CV) of Product (Railway Service)

Respondent	No. of Respondent	Standard Deviation	Mean	CV
Lower Clas Passengers		2.110364036	24.53	8.6031962
	s 100	1.454321321	25.81	5.6347203
Middle Clas Passengers	s 200	1.317747049	25.835	5.1006272

Source: Survey data

Table exhibits he CV of Lower Class, Upper Class and Middle Class Passengers. From the CV of different kinds of respondents, the Middle Class Passengers CV is less than that of others which indicate the opinions of Middle Class passengers are homogeneous and more consistent than that of Lower Class and Upper Class Passengers.

association of opinion between Upper class passengers and Middle class passengers is not significant at lpha.05 level.

Table-26: Calculation of Scores on Price

	Variable Description	1	Hannar Olivi	N A! =1 11 :
Variable no.	Variable Description	Lower Class Passengers	Upper Class Passengers	Middle Class
110.		(100)	(100)	Passengers
		(100)	(100)	(200)
Q.1	The existing pricing structure or	f 91.50%	97.25%	96.00%
<u></u>	Bangladesh Railway is		01.2070	00.0070
	inappropriate for the present			
	situation.			
Q.2	In order to achieve the goal of	92.00%	93.75%	94.13%
	Bangladesh Railway there			
	needs a change of pricing			
	structure of Bangladesh			
Q.3	Railway. In spite of being a modern	88.75%	92.75%	92.63%
Q.5	transportation system, the	00.7576	92.1376	92.0376
	overall pricing structuref			
	Bangladesh Railway is too			
	week.			
Q.4	The passengers of Bangladesh	89.00%	91.00%	91.75%
	Railway are being deprived of			
	getting proper customer care			
	and service according to the			
0.5	value (price) they are paying.	90.00%	00 500/	02.250/
Q.5	Bangladesh Railway Wibe able to play a vital role in the	90.00%	90.50%	93.25%
	way of communication sector			
	much effectively than the			
	present situation if it changes it	s		
	current pricing structure.			
Q.6	The weaker pricing structure of		93.25%	94.00%
	Bangladesh Railway acts as an	1		
	impediment φ establish good			
	service.			
Q.7	Bangladesh Railway will be	89.75%	94.50%	91.50%
	able to play a vital role in the sector of internal			
	communication of the country if	,		
	it changes its pricing structu	'		
	Maximum Support	92.00%	97.25%	96.00%
L				

Source: Survey data

The above Table indicates the Chample Ttest corresponding to the Price of the service of Bangladesh Railway. The table shows that the opinion of each kind of respondents is significant at α .05 level.

Table-29: Paired Samples Ttest of the Scores on Price

Respondents		Paire	d Differe	nce		t	df	Sig.
	Mean	Std.	Std.	95% Co	nfidence			(2-
		Deviation	Error	Interva	l of the			tailed)
			Mean	Differ	rence			
				Upper	Lower			
Pair1	99000	2.49644	.24964	-	49465	-	99	.000
Lower-				1.48535		3.966		
Upper								
Pair2	73000	2.39888	.23989	-	25401	-	99	.003
Lower-				1.20599		3.043		
Middle								
Pair3	.26000	2.12070	.21207	16079	.68079	1.226	99	.223
Upper-								
Middle								

Source: Survey data

The above Table exhibits the paired samples of corresponding to the period the service of Bangladesh Railway. Here, it shows that the opinions between <code>Llopopeerr</code> class passengers and <code>Lower</code> ideas passengers are associated and significant at <code>OFE</code> p level. But the association of opinion between Upper class passengers is not significant at <code>OFE</code> level.

Table-30: Calculation of Scores on Place (Channels of Distribution)

Variable	Variable Description	Lower Class	Upper Class	Middle Class
no.		Passengers	Passengers	Passengers
		(100)	(100)	(200)
Q.1	Bangladesh Railway fails t achieve its goals due to lad of time oriented places (distribution channels)		94.75%	91.75%
Q.2	Good channels of distribution (Place) will	89.00%	93.75%	90.13%

Table exhibits the CV of Lower, Upper and Middle class passengers. From the CV of different kinds of respondents, the Upper class passengers CV is less than that of others which indicate the opinions of Upper class passengers are homogeneous and more consistent than that Lower and Middle class passengers.

Table-32: One-Sample T-test of the Scores on Place (Channels of Distribution)

Respondents	Test Value = 0					
	t	df	Sig. (2-	Mean	95% Confidence	
			tailed)	Difference	Interval of the	
					Difference	
					Lower	Upper
Lower	128.391	99	.000	25.02000	24.6333	25.4067
Upper	186.007	99	.000	25.82000	25.5446	26.0954
Middle	167.441	199	.000	24.81500	24.5228	25.1072

Source: Survey data

The above Table indicates the Osemple Ttest corresponding to the Place (Channels of Distribution) of Bangladesh Railway. The table shows that the opinion of each kind of respondents is significant at p05 level

Table-33: Paired Samples Ttest of the Place (Channels of Distribution)

Respondents		Paire	d Differe	nce		t	df	Sig.
	Mean	Std.	Std.	95% Co	nfidence			(2-
		Deviation	Error	Interva	I of the			tailed)
			Mean	Diffe	rence			
				Upper	Lower			
Pair1	80000	2.28301	.22830	-	34700		99	.001
Lower-				1.25300		3.504		
Upper								
Pair2	.36000	3.04020	.30402	24324	.96324	1.184	99	.239
Lower-								
Middle								
Pair3	1.16000	2.68449	.26845	.62734	1.69266	4.321	99	.000
Upper-								
Midd le								

Source: Survey data

by the Middle class passengers, Q.4 is highly supported (90.25%) by Upper class passengers, Q.5 is highly supported (90.50%) by the Upper class passengers, Q.6 is highly supported (91.25%) by the Uppeass passengers and Q.7 is highly supported (91.75%) by the Upper class passengers.

Table-35:

Co-efficient of Variation (CV) of the Scores on Promotion

Respondent	Number of	Standard	Mean	CV
	Respondents	Deviation		
Lower Class	100	2.06275289	24.74	8.337729
Upper Class	100	1.420307265	25.75	5.5200438
Middle Class	200	1.786823632	25.385	7.0388955

Source: Surveydata

Table exhibits the CV of Lower, Upper and Middle class passengers. From the CV of different kinds of respondents, the Upper class passe@eis less than that of others which indicate the opinions of Upper class passengers are homogeneous and more consistent than that of Lower and Middle class passengers.

Table-36: One-Sample T-test of the Scores on Promotion

Respondents	Test Value = 0					
	t	df	Sig. (2-	Mean	95% Confidence	
			tailed)	Difference	Interval of the	
					Difference	
					Lower	Upper
Lower	119.937	99	.000	24.74000	24.3307	25.1490
Upper	181.158	99	.000	25.73000	25.4482	26.0118
Middle	200.914	199	.000	25.38500	25.135{	25.6342

Source: Survey data

The above Table shows the **QSe**mple Ttest corresponding to the Promotion of Bangladesh Railway. The table shows that the opinion of each kind of respondents is significant at α .05 level

	respond to the needs of customers according			
Q.5	Bangladesh Railway has less number of staffs to give the required service.		95.50%	92.75%
Q.6	The Staffs need training on regular basis to perform their dutie well.	89.00%	93.50%	93.25%
Q.7	Staffs have less custome awarenes	r 89.25%	95.75%	93.50%
N	Maximum Support	89.50%	98.00%	96.13%

Source: Survey data

Table exhibits the percentage corresponding to the opinion of the respondents on People (Staffs) of Bangadesh Railway.

Here the variable Q.1 is highly supported (98.00%) by the Upper class passengers, Q.2 is highly supported (96.75%) by the Upper class passengers, Q.3 is highly supported (94.38%) by the Middle class passengers, Q.4 is highly supported (93.0by Middle class passengers, Q.5 is highly supported (95.50%) by the Upper class passengers, Q.6 is highly supported (93.50%) by the Upper class passengers and Q.7 is highly supported (95.75%) by the Upper class passengers.

Table-39:
Co-efficient of Variation (CV) of the Scores on People (Staffs)

Respondent	Number of	Standard	Mean	CV
-	Respondents	Deviation		
Lower Class	100	1.83046607	24.73	7.401803
Upper Class	100	1.175679473	26.54	4.4298398
Middle Class	200	1.22780803	26.255	4.476473

Source: Survey data

Table exhibits the CV of Lower, Upper and Middle class passengers. From the CV of different kinds of respondents, the Upper class passengers CV is less than that of others which indicate the opinions of Upper class passengers are homogeneousoænd consistent than that of Lower and Middle class passengers.

Table-42 Calculation of the Score of 100 Lower Class Passærs

Variable	Variable Description	Yes	No
no.	·	Opinion	Opinion
	Product(Railway Service) Related Questio	ns	
Q.1	Is the service of Bangladesh Railway able to satisfy	16%	84%
	you and capable of accomplishing your expectation	?	
Q.2	Is Bangladesh Railway ging you better service than	14%	86%
	other transportation		
Q.3	Do you think that Bangladesh Railway has enough	19%	81%
	equipment and manpower to give your desired sen		
Q.4	Is it possible to formulate a fundamental developme	nt 23%	77%
	of Bangladesh Railway whiout constructing its		
	infrastructural change, modification and enlargemer	nt?	
	Price Related Question		
Q.5	Are you happy paying the price for that standard of	15%	85%
	service you are getting from Bangladesh Railv		
Q.6	Are you getting proper custner care for the price you	ı 18%	82%
	are paying		
Q.7	Do you see any advancement of Bangladesh Railw	ay 26%	74%
	service with the present pricing structu		
Q.8	Is the current pricing structure of Bangladesh Railw	ay 17%	83%
	low?		
	Place(Channels of distributon) related Questi		1
Q.9	Are you satisfied with the number of ticket counters BR has?	15%	85%
Q.10	Do you think that the railway stations are modern	14%	86%
	enough to deliver satisfactory servic		
Q.11	Do you think Railway stations are safe enoughytou	14%	86%
	and for your luggage		
Q.12	Does Bangladesh Railway ensure door to door serv	ice s 6%	84%
	for the passengers and commodities like road se		
	Promotion Related Questions		
Q.13	Do you see any advertisement of BR which motivat	es 20%	80%
	you to take teir service		
Q.14	Do you think that the existing promotional activities	21%	79%
	are enough to attract customers towards the		
	organization?		
Q.15	Do you think that BR will be able achieve a	17%	83%
	commanding position in transport sector without		
	taking anysignificant promotional program		
Q.16	Do you see any seasonal discount, or any sort of	16%	84%
	discount fare rate for regular passeng		
_	People(Staffs) Related Questions		T .
Q.17	Is the manpower structure of BR is huge enough to	16%	84%

Talbe-43: Calculation of the Score of 100 Upper Class Passengers

Product(Railway Service) Related Questior Q.1 Is the service of Bangladesh Railway able to satisfy you and capable of accomplishingur expectation Q.2 Is Bangladesh Railway giving you better service than other transportation Q.3 Do you think that Bangladesh Railway has enough equipment and manpower to give your desired sen 17% 83% Q.4 Is it possible to formatte a fundamental development of Bangladesh Railway without constructing its infrastructural change, modification and enlargement? 20% 80% Q.5 Are you happy paying the price for that standard of service you are getting from Banglash Railway? 14% 86% Q.6 Are you getting proper customer care for the price you are paying? 16% 84% Q.7 Do you see any advancement of Bangladesh Railway service with the present pricing structure? 22% 78% Q.8 Is the current pricing structure of Bangladesh Railway low? 15% 85% Place (Channels of distribution) Related Questior Q.9 Are you satisfied with the number of ticket counters BR has 14% 86% Q.10 Do you think that the railway stations are modern enough to deliver satisfactory services? 13% 87% Q.11 Do you think Railway stations are safe enough for you and for your luggage? 14% 86% Q.12 Does Bangladesh Railway ensure door to door services for the passengers and commodities like road sector? 15% 85% Promotion Related Questions Q.13 Do you sthink that the existing promotional activities are enough to attract customers towards the organization? 19% 81% Q.15 Do you think that BR will be able achieve a commanding position in transport sector without taking any significant promotional program? 16% 84% Q.16 Do you see any seasonal discount, or any sort of discount fare rate for regular passengers? 14% 86% Q.16 Do you see any seasonal discount, or any sort of discount fare rate for regular passengers? 14% 86% People (Staffs) Related Question ensure customer structure of BR is huge enough to ensure customer car	Variable	Variable Description	Yes	No
Q.1 Is the service of Bangladesh Railway able to satisfy you and capable of accomplishingur expectation Q.2 Is Bangladesh Railway giving you better service than other transportation Q.3 Do you think that Bangladesh Railway has enough equipment and manpower to give your desired sen Q.4 Is it possible to formulate a fundamental development of Bangladesh Railway without constructing its infrastructural change, modification and enlargement? Q.5 Are you happy paying the price for that standard of service you are getting from Banglash Railway? Q.6 Are you getting proper customer care for the price you are paying? Q.7 Do you see any advancement of Bangladesh Railway service with the present pricing structure? Q.8 Is the current pricing structure of Banglash Railway low? Q.9 Are you satisfied with the number of ticket counters BR has Q.10 Do you think that the railway stations are modern enough to deliver satisfactory services? Q.11 Do you think Railway stations are safe enough for you and for your luggage? Q.12 Does Bangladesh Railway ensure door to door services for the passengers and commodities like road sector? Q.11 Do you think Railway stations are safe enough for you and for your luggage? Q.12 Does Bangladesh Railway ensure door to door services for the passengers and commodities like road sector? Q.13 Do you seany advertisement of BR which motivates you to take their service? Q.14 Do you think that the existing promotional activities are enough to attract customers towards the organization? Q.15 Do you think that BR will be able achieve a commanding position in transport sector without taking any significant promotional program? Q.16 Do you see any seasonal discount, or any sort of discount fare rate for regular passengers? Q.17 Is the manpower structure of BR is huge enough to	no.			
you and capable of accomplishingur expectation 15% 85%				d Questior
Q.2 Is Bangladesh Railway giving you better service than other transportation and their transportation and power to give your desired sen and pequipment and manpower to give your desired sen and pequipment and manpower to give your desired sen and pequipment and manpower to give your desired sen and pequipment of Bangladesh Railway without constructing its infrastructural change, modification and enlargement? 20% 80% Price Related Questions Q.5 Are you happy paying the price for that standard of service you are getting from Banglash Railway? 14% 86% Are you getting proper customer care for the price you are paying? 16% 84% 86% Are you getting proper customer care for the price you are paying? 16% 84% 86% Are you set any advancement of Bangladesh Railway service with the present pricing structure? 22% 78% 85% Place (Channels of distribution) Related Questior Q.9 Are you satisfied with the number of ticket counters BR has 14% 86% Q.10 Do you think that the railway stations are modern enough to deliver satisfactory services? 13% 87% Q.11 Do you think Railway stations are safe enough for you and for your luggage? 14% 86% Q.12 Does Bangladesh Railway ensure door to door services for the passengers and commodities like road sector? 15% 85% Promotion Related Questions Q.13 Do you see any advertisement of BR which motivate you to take their service? 21% 79% you to take their service? 21% 79% Do you think that BR will be able achieve a commanding position in transport sector without taking any significant promotional program? 16% 84% Q.15 Do you see any seasonal discount, or any sort of discount fare rate for regular passengers? 14% 86% People (Staffs) Related Question	Q.1	Is the service of Bangladesh Railway able to satisfy		
Other transportation Q.3 Do you think that Bangladesh Railway has enough equipment and manpower to give your desired sen Q.4 Is it possible to formate a fundamental development of Bangladesh Railway without constructing its infrastructural change, modification and enlargement? Q.5 Price Related Questions Q.5 Are you happy paying the price for that standard of service you are getting from Banglash Railway? Q.6 Are you getting proper customer care for the price you are paying? Q.7 Do you see any advancement of Bangladesh Railway service with the present pricing structure? Q.8 Is the current pricing structure of Bangladesh Railway low? Place (Channels of distribution) Related Question Q.9 Are you satisfied with the number of ticket counters BR has Q.10 Do you think that the railway stations are modern enough to deliver satisfactory services? Q.11 Do you think Railway stations are safe enough for you and for your luggage? Q.12 Does Bangladesh Railway ensure door to door services for the passengers and commodities like road sector? Q.14 Do you seemy advertisement of BR which motivates you to take their service? Q.14 Do you think that the existing promotional activities are enough to attract customers towards the organization? Q.15 Do you seemy advertisement of BR which motivates are enough to attract customers towards the organization? Q.15 Do you seems yeasonal discount, or any sort of discount fare rate for regular passengers? Q.16 Do you see any seasonal discount, or any sort of discount fare rate for regular passengers? Q.17 Is the manpower structure of BR is huge enough to		you and capable of accomplishingur expectation	15%	85%
Q.3 Do you think that Bangladesh Railway has enough equipment and manpower to give your desired sen 17% 83% Is it possible to formulate a fundamental development of Bangladesh Railway without constructing its infrastructural change, modification and enlargement? 20% 80% Price Related Questions Q.5 Are you happy paying the price for that standard of service you are getting from Banglash Railway? 14% 86% Are you getting proper customer care for the price you are paying? 16% 84% 86% Q.7 Do you see any advancement of Bangladesh Railway service with the present pricing structure? 22% 78% Is the current pricing structure of Bangladesh Railway low? 15% 85% Place (Channels of distribution) Related Questior Q.9 Are you satisfied with the number of ticket counters BR has 14% 86% Q.10 Do you think that the railway stations are modern enough to deliver satisfactory services? 13% 87% Q.11 Do you think Railway stations are safe enough for you and for your luggage? 14% 86% Q.12 Does Bangladesh Railway ensure door to door services for the passengers and commodities like road sector? 15% 85% Promotion Related Questions Q.13 Do you seeny advertisement of BR which motivates you to take their service? 21% 79% Q.14 Do you think that the existing promotional activities are enough to attract customers towards the organization? 19% unith that BR will be able achieve a commanding position in transport sector without taking any significant promotional program? 16% 84% Q.16 Do you see any seasonal discount, or any sort of discount fare rate for regular passengers? 14% 86% People (Staffs) Related Question	Q.2	Is Bangladesh Railway giving you better service that	n	
equipment and manpower to give your desired sen 17% 83% Q.4 Is it possible to formulate a fundamental development of Bangladesh Railway without constructing its infrastructural change, modification and enlargement? 20% 80% Price Related Questions Q.5 Are you happy paying the price for that standard of service you are getting from Banglash Railway? 14% 86% Q.6 Are you getting proper customer care for the price you are paying? 16% 84% Q.7 Do you see any advancement of Bangladesh Railway service with the present pricing structure? 22% 78% Q.8 Is the current pricing structure of Banglash Railway low? 15% 85% Place (Channels of distribution) Related Question Q.9 Are you satisfied with the number of ticket counters BR has: 14% 86% Q.10 Do you think that the railway stations are modern enough to deliver satisfactory services? 13% 87% Q.11 Do you think Railway stations are safe enough for you and for your luggage? 14% 86% Q.12 Does Bangladesh Railway ensure door to door services for the passengers and commodities like road sector? 15% 85% Promotion Related Questions Q.13 Do you seemy advertisement of BR which motivates you to take their service? 21% 79% Q.14 Do you think that the existing promotional activities are enough to attract customers towards the organization? 19% 81% Q.15 Do you think that BR will be able achieve a commanding position in transport sector without taking any significant promotional program? 16% 84% Q.16 Do you see any seasonal discount, or any sort of discount fare rate for regular passengers? 14% 86% People (Staffs) Related Question Q.17 Is the manpower structure of BR is huge enough to		other transportation	13%	87%
Sit possible to formatte a fundamental development of Bangladesh Railway without constructing its infrastructural change, modification and enlargement? 20% 80% Price Related Questions Related Questions	Q.3	Do you think that Bangladesh Railway has enough		
of Bangladesh Railway without constructing its infrastructural change, modification and enlargement? 20% 80% Price Related Questions Q.5 Are you happy paying the price for that standard of service you are getting from Banglesh Railway? 14% 86% 2.6 Are you getting proper customer care for the price you are paying? 16% 84% 2.7 Do you see any advancement of Bangladesh Railway service with the present pricing structure? 22% 78% 2.8 Is the current pricing structure of Bangladesh Railway low? 15% 85% 2.7 Place (Channels of distribution) Related Questior Q.9 Are you satisfied with the number of ticket counters BR has 14% 86% 2.10 Do you think that the railway stations are modern enough to deliver satisfactory services? 13% 87% 2.11 Do you think Railway stations are safe enough for you and for your luggage? 13% 86% 2.12 Does Bangladesh Railway ensure door to door services for the passengers and commodities like road sector? 15% 85% 2.13 Do you seenly advertisement of BR which motivates you to take their service? 21% 79% 2.14 Do you think that the existing promotional activities are enough to attract customers towards the organization? 19% 81% 2.15 Do you think that BR will be able achieve a commanding position in transport sector without taking any significant promotional program? 16% 84% 2.16 Do you see any seasonal discount, or any sort of discount fare rate for regular passengers? 14% 86% 2.17 Is the manpwer structure of BR is huge enough to				83%
infrastructural change, modification and enlargement? 20% 80% Price Related Questions Q.5 Are you happy paying the price for that standard of service you are getting from Banglash Railway? 14% 86% Q.6 Are you getting proper customer care for the price you are paying? 16% 84% Q.7 Do you see any advancement of Bangladesh Railway service with the present pricing structure? 22% 78% Is the current pricing structure of Bangladesh Railway low? 15% 85% Place (Channels of distribution) Related Questior Q.9 Are you satisfied with the number of ticket counters BR has 14% 86% Q.10 Do you think that the railway stations are modern enough to deliver satisfactory services? 13% 87% Q.11 Do you think Railway stations are safe enough for you and for your luggage? 14% 86% Q.12 Does Bangladesh Railway ensure door to door services for the passengers and commodities like road sector? 15% 85% Promotion Related Questions Q.13 Do you seany advertisement of BR which motivate you to take their service? 21% 79% Q.14 Do you think that the existing promotional activities are enough to attract customers towards the organization? 19% 81% Q.15 Do you think that BR will be able achieve a commanding position in transport sector without taking any significant promotional program? 16% 84% Q.16 Do you see any seasonal discount, or any sort of discount fare rate for regular passengers? 14% 86% People (Staffs) Related Question Q.17 Is the manpwer structure of BR is huge enough to	Q.4	Is it possible to formulate a fundamental development	t	
Are you happy paying the price for that standard of service you are getting from Banglæsh Railway? Q.6 Are you getting proper customer care for the price you are paying? Q.7 Do you see any advancement of Bangladesh Railway service with the present pricing structure? Q.8 Is the current pricing structure of Bangladesh Railway low? Place (Channels of distribution) Related Questior Q.9 Are you satisfied with the number of ticket counters BR has 14% 86% Q.10 Do you think that the railway stations are modern enough to deliver satisfactory services? 13% 87% Q.11 Do you think Railway stations are safe enough for you and for your luggage? Q.12 Does Bangladesh Railway ensure door to door services for the passengers and commodities like road sector? 15% 85% Promotion Related Questions Q.13 Do you seemy advertisement of BR which motivates you to take their service? 21% 79% Q.14 Do you think that the existing promotional activities are enough to attract customers towards the organization? 19% 81% Q.15 Do you think that BR will be able achieve a commanding position in transport sector without taking any significant promotional program? 16% 84% Q.16 Do you see any seasonal discount, or any sort of discount fare rate for regular passengers? 14% 86% People (Staffs) Related Question Q.17 Is the manpower structure of BR is huge enough to				
Q.5 Are you happy paying the price for that standard of service you are getting from Banglesh Railway? Q.6 Are you getting proper customer care for the price you are paying? Q.7 Do you see any advancement of Bangladesh Railway service with the present pricing structure? Q.8 Is the current pricing structure of Banglesh Railway low? Place (Channels of distribution) Related Questior Q.9 Are you satisfied with the number of ticket counters BR has Q.10 Do you think that the railway stations are modern enough to deliver satisfactory services? Q.11 Do you think Railway stations are safe enough for you and for your luggage? Q.12 Does Bangladesh Railway ensure door to door services for the passengers and commodities like road sector? Q.13 Do you seemy advertisement of BR which motivates you to take their service? Q.14 Do you think that the existing promotional activities are enough to attract customers towards the organization? Q.15 Do you think that BR will be able achieve a commanding position in transport sector without taking any significant promotional program? Q.16 Do you see any seasonal discount, or any sort of discount fare rate for regular passengers? Q.17 Is the manpower structure of BR is huge enough to		infrastructural change, modification and enlargemen	nt? 20%	80%
service you are getting from Banglesh Railway? Q.6 Are you getting proper customer care for the price you are paying? Q.7 Do you see any advancement of Bangladesh Railway service with the present pricing structure? Q.8 Is the current pricing structure of Bangladesh Railway low? Place (Channels of distribution) Related Questior Q.9 Are you satisfied with the number of ticket counters BR has Q.10 Do you think that the railway stations are modern enough to deliver satisfactory services? Q.11 Do you think Railway stations are safe enough for you and for your luggage? Q.12 Does Bangladesh Railway ensure door to door services for the passengers and commodities like road sector? Q.13 Do you seemy advertisement of BR which motivates you to take their service? Q.14 Do you think that the existing promotional activities are enough to attract customers towards the organization? Q.15 Do you think that BR will be able achieve a commanding position in transport sector without taking any significant promotional program? Q.16 Do you see any seasonal discount, or any sort of discount fare rate for regular passengers? Q.17 Is the manprover structure of BR is huge enough to		Pr	ice Related	Questions
Q.6 Are you getting proper customer care for the price you are paying? Q.7 Do you see any advancement of Bangladesh Railway service with the present pricing structure? Q.8 Is the current pricing structure of Bangladesh Railway low? Place (Channels of distribution) Related Questior Q.9 Are you satisfied with the number of ticket counters BR has: Q.10 Do you think that the railway stations are modern enough to deliver satisfactory services? Q.11 Do you think Railway stations are safe enough for you and for your luggage? Q.12 Does Bangladesh Railway ensure door to door services for the passengers and commodities like road sector? Q.13 Do you seen yadvertisement of BR which motivates you to take their service? Q.14 Do you think that the existing promotional activities are enough to attract customers towards the organization? Q.15 Do you think that BR will be able achieve a commanding position in transport sector without taking any significant promotional program? Q.16 Do you see any seasonal discount, or any sort of discount fare rate for regular passengers? Q.17 Is the manprover structure of BR is huge enough to	Q.5	Are you happy paying the price for that standard of		
are paying? Q.7 Do you see any advancement of Bangladesh Railway service with the present pricing structure? Q.8 Is the current pricing structure of Banglash Railway low? Place (Channels of distribution) Related Questior Q.9 Are you satisfied with the number of ticket counters BR has 14% 86% Q.10 Do you think that the railway stations are modern enough to deliver satisfactory services? 13% 87% Q.11 Do you think Railway stations are safe enough for you and for your luggage? 14% 86% Q.12 Does Bangladesh Railway ensure door to door services for the passengers and commodities like road sector? 15% 85% Promotion Related Questions Q.13 Do you seenny advertisement of BR which motivates you to take their service? 21% 79% Q.14 Do you think that the existing promotional activities are enough to attract customers towards the organization? 19% 81% Q.15 Do you think that BR will be able achieve a commanding position in transport sector without taking any significant promotional program? 16% 84% Q.16 Do you see any seasonal discount, or any sort of discount fare rate for regular passengers? 14% 86% People (Staffs) Related Question Q.17 Is the manpower structure of BR is huge enough to		service you are getting from Banglesh Railway?	14%	86%
Q.7 Do you see any advancement of Bangladesh Railway service with the present pricing structure? Q.8 Is the current pricing structure of Banglash Railway low? Place (Channels of distribution) Related Question Q.9 Are you satisfied with the number of ticket counters BR has Q.10 Do you think that the railway stations are modern enough to deliver satisfactory services? Q.11 Do you think Railway stations are safe enough for you and for your luggage? Q.12 Does Bangladesh Railway ensure door to door services for the passengers and commodities like road sector? Q.13 Do you seeany advertisement of BR which motivates you to take their service? Q.14 Do you think that the existing promotional activities are enough to attract customers towards the organization? Q.15 Do you think that BR will be able achieve a commanding position in transport sector without taking any significant promotional program? Q.16 Do you see any seasonal discount, or any sort of discount fare rate for regular passengers? Q.17 Is the manpwer structure of BR is huge enough to	Q.6	Are you getting proper customer care for the price y	ou	
service with the present pricing structure? Q.8 Is the current pricing structure of Bandbash Railway low? Place (Channels of distribution) Related Questior Q.9 Are you satisfied with the number of ticket counters BR has 14% 86% Q.10 Do you think that the railway stations are modern enough to deliver satisfactory services? 13% 87% Q.11 Do you think Railway stations are safe enough for you and for your luggage? 14% 86% Q.12 Does Bangladesh Railway ensure door to door services for the passengers and commodities like road sector? 15% 85% Promotion Related Questions Q.13 Do you seæny advertisement of BR which motivates you to take their service? 21% 79% Q.14 Do you think that the existing promotional activities are enough to attract customers towards the organization? 19% 81% Q.15 Do you think that BR will be able achieve a commanding position in transport sector without taking any significant promotional program? 16% 84% Q.16 Do you see any seasonal discount, or any sort of discount fare rate for regular passengers? 14% 86% People (Staffs) Related Question		are paying?	16%	84%
Step	Q.7	Do you see any advancement of Bangladesh Railw	ay	
low? 15% 85% Place (Channels of distribution) Related Questior Q.9 Are you satisfied with the number of ticket counters BR has		service with the present pricing structure?	22%	78%
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Organization? Q.15 Do you think that BR will be able achieve a commanding position in transport sector without taking any significant promotional program? Q.16 Do you see any seasonal discount, or any sort of discount fare rate for regular passengers? People (Staffs) Related Question Q.17 Is the manpwer structure of BR is huge enough to	Q.14	Do you think that the existing promotional activities		
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discount fare rate for regular passengers? 14% 86% People (Staffs) Related Question Q.17 Is the manpwer structure of BR is huge enough to		taking any significant promotional program?	16%	84%
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Q.17 Is the manprover structure of BR is huge enough to		discount fare rate for regular passengers?	14%	86%
		People (Staffs) Related Question		
ensure customer cai 15% 85%	Q.17	Is the manpwer structure of BR is huge enough to		
		ensure customer cal	15%	85%

Table-44: Calculation of the Score of 200 Middle Class Passengers

Variable	Variable Description	Yes	No
no.		Opinion	Opinion
	Product(Railway Service) Related Questio		
Q.1	Is the service of Bangladesla Rway able to satisfy		
	you and capable of accomplishing your expectation	? 17%	83%
Q.2	Is Bangladesh Railway giving you better service that		
	other transportation?	16%	84%
Q.3	Do you think that Bangladesh Railway has enough		
	equipment and manpower to giveuyodesired service	? 15%	85%
Q.4	Is it possible to formulate a fundamental developme	nt	
	of Bangladesh Railway without constructing its		
	infrastructural change, modification and enlargemen	nt? 20%	80%
	Price Related Question		
Q.5	Are you happy paying the perfor that standard of		
	service you are getting from Bangladesh Railv	17%	83%
Q.6	Are you getting proper customer care for the price y	ou	
	are paying	19%	81%
Q.7	Do you see any advancement of Bangladesh Railw	ay	
	service with the present pricing struct?	19%	81%
Q.8	Is the current pricing structure of Bangladesh Railw	ay	
	low?	17%	83%
	Place (Channels of distribution) Related Ques		
Q.9	Are you satisfied with the number of ticket counters		
	BR has?	15%	85%
Q.10	Do you think that the railway stationseamodern		
	enough to deliver satisfactory services?	15%	85%
Q.11	Do you think Railway stations are safe enough for y	ou	
	and for your luggage?	17%	83%
Q.12	Does Bangladesh Railway ensure door to door serv	rices	
	for the passengers and commodities like roatosec	18%	82%
	Promotion Related Questions		
Q.13	Do you see any advertisement of BR which motivat	es	
	you to take their service?	17%	83%
Q.14	Do you think that the existing promotional activities		
	are enough to attract customers towards the		
	organization?	15%	85%
Q.15	Do you think that BR will be able achieve a		
	commanding position in transport sector without		
	taking any significant promotional prograr	13%	87%
Q.16	Do you see any seasonal discount, or any sort of		
	discount fare rate for regular passeng	12%	88%
	People (Staffs) Related Questions		T
Q.17	Is the manpower structure of BR is huge enouς	18%	82%

5.3 Triangulation

In the present study, the researcher has collected both Qualitative Data and Quantitative Data. Then the Researcher has alyzed Data using the mixed approach (Creswell, 2009) of Creswell. Analyzing data, the researcher has interpreted data and their result to formulate the findings of the research study.

Qualitative (Data & Result) + Quantitative (Data & Result) = Interp retation (Findings) (Creswell, 2009)

First the researcher has framed three individual questionnaires and has collected primary data form the respondents in Qualitative approach. Then the researcher has calculated the scores of the opinions of the respondence Quantitative approach. The researcher has formulated the matrix of the beneficiaries using both percentage and mean corresponding of the scores.

Matrix of Beneficiaries and the functions of Service Marketing of Bangladesh Railway:

Table-45:
Triangular Analysis by Percentage Corresponding

Thangulal Analysis	Thangular Analysis by Fercentage Corresponding					
	BENEFICIARIES					
Functions of	Lower Class	Upper Class	Middle Class			
Service Marketing	Passenger	passenger	passenger			
Product	82.00 %	83.75 %	83.00 %			
Price	81.00 %	83.25 %	82.00 %			
Place	85.25 %	86.00 %	83.75 %			
Sales Promotion	81.50 %	82.50 %	85.75 %			
People	84.75 %	86.25 %	80.75 %			

Source: Surveydata

The triangular analysis of the scores of the respondents shows that they are closely related in their opinion. So, it can be said that the opinions of the relationare highly significant.

delivery service to the final destination, all these need to be decode on proportion to the demand of age which fails to achieve organizational qualitation.

2. The standard of customer care is being highly hampered due to lack of good service structure and Punctuality of trains: According to the number of trains operated and route kilometethe existing supplies of locomotives, carriage and wagons are not sufficient. Due to unavailability of locomotives, carriage and wagons, number of train is limited and sometimes few trains in some routes are cancelled. Due to insufficient supply of store of spear parts, timely and proper outputs of workshops are interrupted. As a result the objective of comfortable, safe movement is not always achieved and trains fail to maintain punctuality (departure and arrival time).

- 3. The existing pricing structure of Bangladesh Railway is inappropriate and also is a hindrance to achieve organizational goalsBR faces problems in pricing, they are:
 - a. Constraints on charges imposed through government regulation: BR has no commercial freedom to impose charges for theirvises other than to abide by government regulations. BR is not able to do commercial utilization of assets and land area by its own choice.
 - b. Provision of services at below marginal cost: Tariff of the Railway is not cost based and is dictated by the wideocial and economic interest of the country. Consequently, it has not been possible for BR to balance the earning and expenditure due to the continuation of operation of non profitable services, especially, the uneconomic branch lines or train services we other similar non economic factors. Besides, as a matter of national policy, BR is required to provide transport of essential commodities on top priority basis in emergent situations and also to provide concession transport facilities for essential commodities of common consumption by the economically weaker sections of the community.
 - c. Ineffective in collecting revenues: BR has not been able to collect its revenues properly because of many malpractices done by its staffs.
 - d. Over manningLike many other government organizations BR has huge number of staffs which is an overburden for the organization causing more expenditure.

railways, these will include not only passenger stations and freight terminals, but corporate/regional/divisional headquarters, centralized railway vatices offices, hotels, travel agents, and freight forwarders' offices and terminals.

Railway has internal channels of distribution and external channels of distribution.

Internal channels of distribution includes: Passer&tations and FreighTerminals, Corporate/Regional/Divisional headquarters, Centralized railway reservation offices Call centers/Websites, fax and email.

External channels of distribution includes: Hotels, Travel agents and Freight forwarders', OfficesandTerminals

BR does not provide all these above mentioned Internal and External channels of distributions for its customers.

- 7. Absence of Advertisements in the media and the Salesmanship is not available and inefficient: For any organization advertisements play a vital toleattract customers towards it and ultimately to increase sales volumease of BR, no advertisement is seen in the mediaRailway sales forces have a passive or reactive, rather than a proactive role, serving existing customers rather than seeking moduse curing new customers, order taking rather than order general fing thermore, these sales force have not been organized in a way which would assist them to actively promote railway services and securnew business. Most Railway sales forces have those able to develop the specialized knowledge of individual market segments needed to be able to effectively sale railway services to these segments
- 8. The present promotional policy is not customer oriented and ineffective romotion includes advertising, sales force representation and public relations. Only a relatively few railway organizations have encouraged market segment specialization by their sales

handicapped to serve the country effectively and efficaciously without propeient ation and development

1. (b) Gauge Problems

Bangladesh Railway has been suffering from various operating bottlenecks. The railway system comprises ogauges, Broad and Metre which involves transshipments of traffic at the break of gauge points. Similarly transshipments are also involved at riverain points. Besides, during rainy season direct route links are often disrupted in many points.

2. (a) Managerial Problems

Bangladesh Railway management system is under experiment for a long time. Till June 2, 1982, the management and development of railway was vested with a Railway Board, comprising of a Chairman and four members. But, for administrationevenience and operational reason the Railway Board was abolished with effect from June 3, 1982 and the function of the Railway Board was vested with the Railway Division of the Ministry of Communications with the Secretary of the Division working of hes Director General of Bangladesh Railway. For the same purpose the Railway bifurcated into two zones, East & West, under the administrative control of two General Managers (GMs), who are responsible/ accountable to the Director General (DG) of Bangladesihway. Subsequently on August 12, 1995, Railway was separated from the Ministry and entrusted with Director General drawn from the Railway professionals. For policy guidance, a 9 (nine) member Bangladesh Railway Authority (BRA) was formed with the Minoste Communications as its Chairman. The Director General is assisted by in Additional Director Generals and second Joint Directors Generals. Frankly speaking, the DG holds little control over different activities especially related to planning & policymfolation. This creates operational as well as planning and development problems.

2. (b) Lack Of Coordination

Bangladesh railway is a large organization comprising of two zorrasst & West, divided by the river Jamuna, under the administrative controllor GMs who are accountable to

On of the major problems, presently faced by the Bangladesh Railways is a serious shortage of locomotives and route capacity. Far from having insufficient traffic on its trunk routes, the BR suffers an excess of traffic in relation to the capacity of these routes. Operating

priority on these routes is given to passenger trains, and freight trains incur major delays

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and frequent cancellations as a result.

Chapter: 5

Since the liberation of Bangladesh, insteaf constructing new railoutes, some of the branch line railway sections were declared redundant and subsequently closed and no proper attention to maintain the existing asset was being given. The condition of locomotives (rail engines) is also mise ab The musclemen are occupying railway land and properties. Already 12,000 acres lands have been illegally dispossessed out of its 23,900 acres land. No guardian stands to say for BR, to see its future. At present, BR owns 170 trains of which 34 are Inteity, 40 are Mail & Express and rest 96 are local trains (66 in East zone and 30 in West zone). The serviceable life of the locomotives of 140 trains out of 170 has already been expired. Most of the locomotives are running over 50 years. Presently, railway owns 1400 carriages/bogies (400 for Intercity, 400 for Mail & Express and 576 for local trains) and most of them are backdated.

4. Financial Problems

BR has to maintain it's track, building, locomotives, coaches & wagons, signaling system, electric substitions etc. by its own cost, which cause increase in operating expenses as well as decreases net operating income. Furthermore, the yearly financial budget is too small to maintain only overhead and variable costs. Development works cannot move forward due insufficient budget. It needs huge investment to come to a standard position and then it can be move smoothly. Budget constraints act as a barricade towards all the necessary development works.

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4. After the liberation war of 1971, BR has not been able to expando uts network significantly. At present,1200 kms rail lines are under risk for operation due to lack of proper maintenance a result, derailment has become comment has a serious shortage of locomotives and route capacity. Far from having insufficient on its

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trunk routes, the BR suffers an excess of traffic in relation to the capacity of these routes. Operating priority on these routes is given to passenger trains, and freight trains

incur major delays and frequent cancellations as a result.

Chapter: 6

5. Since the liberation of Bangladesh, instead of constructing newrotaties, some of the branch line railway sections were declared redundant and subsequently closed and no proper attention to maintain the existing asset was being given. The musclemen are occupying railway land and properties. Already 12,000 acres lands have been illegally dispossessed out of its 23,900 acres land. No guardian stands to say for BR, to see its future.

- 6. The condition of locomotives (rail engines) is miserable. At present, with \$\delta 670\$ trains of which 34 are Intercity, 40 are Mail & Express and rest 96 are local trains. The serviceable life of the locomotives of 140 trains out of 170 has already been expired. Most of the locomotives are running over 50 years. Presently, railwams \$\delta 400\$ carriages/bogies (400 for Intercity, 400 for Mail & Express and 576 for local trains) and most of them are backdate@ld engines consume excessive amount of fuel due to leakage, wear and tear and sudden engine breakdown/ failure happens anadeblackd carriages fail to attract customers and needs excessive maintenance which causes more expenditure.
- 7. Most of the route networks are single line based, which reduces traffic density and increase running time. BR has to introduce double line at main metukerk to increase traffic density and reduce running time. New locomotives, coaches and wagons should also be provided to match the growing demands. Modern color light signaling system should also be introduced in all station needs to improve physial structure and to remove bottlenecks resulting from inadequate infrastructure and outdated rolling stock & workshop facilities. It needs to build adequate infrastructure in rail track signaling, telecommunication, eommerce & business, manufacturing acintenance workshops etc. BR needs to strengthen its existing facilities of workshop and machineries to cope

Recommendations

There is a lot of scope to increase the efficiency of Bangladesh Railway. Most important way is to strengthen BR's operational capacity and efficiency through reducing its inherited physical & structural weakness by rehabilitation as well as reorientation and all the way through institutional and organizational reform processes and developing & implementing effective integrated multimodal transport policy emphasizing the importance of railway transportation in respect to our socieconomic context. The adoption of marked philosophy can make BR more competitive and market commercial viable organization. This reorientation and reform processes may be appeared as blessing to BR as well as to country's transport sector for the sustainable development of the country. Operational efficiency of BR would be improved through optimizing the use of assets. Thus railway would be more responsive to market needs through organizational reform incorporating tructural changes and sound business practices.

In this context, a transportation act and appropriate regulatory institutions have to be in place for enforcing and overseeing objectives of the transport sector. Legislation must be properly implemented anenforced for proper functioning of transport internal market. An independent Commission for Integrated Transport should be established to advise Government and to monitor progress on the implementation of policy ent deficiencies of sector bias, improper modal mix, unsustainable development, and integrated development should be removed through strategic planning. Although Bangladesh Railway is a vastly prospective transport organization in Bangladesh, but for the lack of proper marketing application it has failed to achieve its objectives and goals. Based on findings and conclusions of the study, the following recommendations are seen feasible for the improvement of the existing service marketing of Bangladesh Railway.

Recommendations are givenance with the objectives of the study.

c) BR should declare incentives for staffs for fulfilling duties or for increasing sales volume, this way malpracticean be stopped and the amount of revenue collection can be made effectively.

- d) Employee size should be rational for every organiza@ver-staffing is a problem in BR. In many countries, experience has shown that fare and equitable treatment of adverse effects on labor is absolutely crucial to the successful completion of a railway restructuring effort.
- e) A profit driven pricing objectives or poly has tobe formulated aimed at profit maximization, to recover capital costs, losses or expenditures.
- f) De-politicization and Commercializations desirable in order to create a stable and credible basis for the commercial operation which will help to the capable to retain /reinvest surplus funds.
- 4. Discounts may be provided for: ticket bulk purchases (e.g. weekly, monthly, yearly tickets); offpick travel (time of day or seasonal); group travel and tours; discriminatory pricing may be provided for student/old aged passengers. BR must ensure quality, availability, safety, comfort and speedy services to the customers who are paying prices for those. BR should be able to convince them that, what they are paying to get the desired service islræght.
- 5. The route network should be modified to connect more commercial cities and to reduce distance between destinationshich will reduce running time and can provide door to door service for the customers.
- 6. In the wider sense, "place" meanchannels of distribution for the product. Outside of the railway organization itself, the most effective channels of distribution for the railway "product" are likely to be travel agents in the case of rail passenger services and freight forwarders, in the case of rail freight services. The main advantage of using external channels of distribution is that business volume can be maximized through a relatively small number of direct customers, who act as wholesalesselbing space on trains to a much larger grop of final consumers, accepting the credit and business risk and arranging storage and feeder transport (to/from railheads), where required. By directing a greater proportion of their business through such "wholesalers", railway managements can often acleive significant reductions in their operating costs, with commensurate improvements in the overall corporate financial result.

staffs. If it is done, people will be self motivatted be more efficient and will try their best to use their potential at most.

10. The Staffs of BR should be provided training on regulæsisb which will help them to be upgraded to perform their duties more efficiently. The staffs of BR have less customer awareness. What is required, therefore, is total customer awareness from the very top to the lowest levels of staffs in the railway organization. Inevitably, this in turn will require that a customer awareness culture be installed throughout the railway organization by its senior management, who in most cases must first make the mental transition themselves, or be prepared to be swept lasiple resonnel who already have.

Recommendations Against The Problems Identified From Secondary Data:

1 (a) Bangladesh Railway cannot serve the country in full swing, as it was not designed to serve this present geographic territory. Due to truncation the main railway system, there are a numbers of missing links in different sections of the present railway network. For proper utilization a number of links should be constructed. Besides, due to lack of proper maintenance for a long time, BR hasolonese paralyzed. For this reason, urgent action program should be taken for the rehabilitation of branch lines and modernization of signaling & interlocking systems of different stations to make BR more efficient and functioning.

1 (b) The railway link overthe Bangabandhu Jamuna Bridge connecting the East and West zones through the construction of 99 km new dual gauge line and rehabilitation and conversion of 245 km Broad Gauge line from Jamtoil to Parbatipur to Dual Gauge has eased out these operational objects considerably. Further improvement will be achieved after completion of the following on going/ proposed work, viz.9a) railway link between western side of Jamuna Bridge to Bogra,(b) railway link between eastern side of Jamuna Bridge to Tarakandi.Recently, Dual Gauge (DG) has been constructed in some important sections to ease the problems.

Towards rationalization of gauges in Bangladesh, the going program of dualization from Parbatipur to Dhaka, should be extended up to Chittagong, to facility itemal integration,

The present railway infrastructure should be changed to modernize BR. Most of the route networks are single line based, which reduces traffic density and increase running time. BR has to introduce double line at main route network to increase traffic densityedunce running time. Modern color light signaling system should also be introduced in all stations. New locomotives, coaches and wagons should also be provided to match the growing demands. If possible electric locomotives should be introduced to be aconeical, speedy and convenient transport.

BR is also suffering from lack of investment for proper maintenance of tracks. The span of service life of maximum railway locomotives, carriages, vehicles, tracks, bridges, workshops etc. have already been explicated funds have not been allocated for their maintenance and smooth operation for a long time. Thus BR was forced to face the uneven competition with other modes of transport. Recently, derailment has become very common. This has adverse impact efficiency and reliability of services. Improved services should be ensured by aggressive development and rehabilitation of existing assets. Government has to patronize BR to reduce its operating bottlenecks and help to build its glorious image. As a huge financial involvement is required to increase the overall efficiency of BR, donor agencies should be invited to invest.

Action plan concerning legal, regulatory and institutional measures to achieve the policy objectives of sustainable transport are **tie** enforced by the government through legislative means.

4. Railway's operational, managerial, Political or Bureaucratic and Financial problems can be removed significantly if private sector participation or involvement in Railway can be ensured

Private sector participation should be allowed. Many railway activities traditionally reserved for monolithic public railways can be more effectively performed by the private sector. In practice, it is possible to identify a range of different institution railway activities

(d) Provision of Leasing from the Private Sector can be allowed. In many countries, a private company, often specialized in leasing, buys a piece of equipmentases it to the railway. Such opportunities are particularly favorable for specialized or limited use equipment. Indian Railways created a subsidiary, the Indian Railways Finance Corp., which issued bonds to private individuals and entities, to buy experint, and lease it to the railway.

- (e) Concessions are a form of lease in which the contractor agrees to make certain fixed investments and retains the use of the assets for a longer contract period. In some countries, concessions of up to 30 years have to granted to operators, who have responsibility for all maintenance and investment. Concessions often involve bidding for the lowest subsidy on operations and investment.
- (f) Joint Ventures can be made. Typically joint ventures involve private pardner panies contributing to the development capital, planning, and management expertise in the development of land or other real estate owned by a railway. British Rail created a Property Board to develop station space in concert with the private sector.
- (g) Private Ownership can be allowed. A few examples can be found of private ownership in railways (which may include some public participation, as long as it is not a controlling interest). The most extreme examples are to be found in the Sweden and with mitten where the right to provide services have been franchised to privately owned and operated train operators. Indeed in the United Kingdom for a time the network infrastructure was fully privatized. Examples can also be found of privately owned service publicly owned railways, for example, food catering on Indian Railways. In Poland, various subsidiaries of the railways, such as manufacturing and repairs, are being transformed into private, joint stock, or independent state owned enterprises.

Conclusion

The Railway of this area is infitted form British India started declining day by danyd Bangladesh Railway started loosing its glorious passta result of the monopoly. Bangladesh Railway inherited a number of structural and physical weaknesses as a part of its legacy since it was nespecially designed and constructed to serve Bangladesh. Due to truncation from the main system, BR is handicapped to serve the country effectively and efficaciously without proper rerientation and development. Now, more than ever before in the long history, BR is facing major threats to its long term survival: The progressive withdrawal of the Government funding which was necessary in the past to sustain Railway infrastructure and services, and the relentless increasing competition from other transport modes, especially from road transport which has been assisted by different factors are the major threats. The first of these threats, the withdrawal of Government funding assistance, must and should be combated with more effective lobbying of Governmentails and should be combated with more effective lobbying of Governmentails and should be combated with more effective lobbying of Governmentails. Managements. The second threat, however, can partly be countered by more effective lobbying. Competition from the road transport cannot be expected to reduce in intensity for the foreseeable future for its greater flexibility will only be efectively counteracted if rail can offer a standard service which at the same time satisfies the needs of customers and is superior to the offers from its competitors. Clearly this provides rail with a substantial challenge. It requires a major change hime butlook of railway managements and in the culture of railway organization. Henceforth, the activities of Railway managements will have to be directed at identifying, understanding and responding to the needs of their existing and potential customerseidifying and understanding the cost causation and profit potential associated with the individual traffics or market segments; and bringing about the organizational change which will ensure that railway satisfies new commercial goals. These

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APPENDIX -2

QUESTIONNAIRE DESIGN TO KNOW THE OPINIONS OF THE CUSTOMERS (RESPONDENTS) ABOUT SERVICE MARKETING OF BANGLADESH

RAILWAY:

NB: We drawyour kind attention to inform you that the study aims at highlighting the conditions of service marketing of Bangladesh Railway. We expect your valuable opinions and suggestions. We assure you that the secrecy of your opinion will be kept. Your valuable information will be used as the primary data of an M. Phil program. There is given some statements having alternate five scale supports. You are highly requested to read out the questions carefully and put a tick3) mark within the box as you think as youwn opinion. The five scale supports as follows:

I) Unwilling to answer

- II) Low support
- III) Support
- IV) High Support
- V) Very High support

RESEARCH TITLE

Service Marketing in Bangladesh: A Case Study of Bangladesh Railway.

PART ONE: PROFESSIONAL INFORMATION

FOR THE CUSTOMERS (RESPONDENTS)

- 1) Name of the Respondent:
- 2) Occupation:
- 3) Name of the traveled Train:
- 4) Destination:
- 5) Present Address:

PART TWO: QUESTIONNAIRE -1

(To be used by the respondents)

A. PRODUCT (RAILWAY SERVICE)

- 1. The existing Service structure of Bangladesh Railway is weak in proportion to the demand of age.
- (i) Unwilling to answer (ii) Low support (iii) Support (iv) High support (v) Very high support
- 2. In order to achieve the expected goal of Banglades was ait is needed to change the overall service structure of the organization.
- (i) Unwilling to answer (ii) Low support (iii) Support (iv) High support (v) Very high support
- 3. The standard of customer care is being highly hampered due to lack observice structure.
- (i) Unwilling to answer (ii) Low support (iii) Support (iv) High support (v) Very high support
- 4. The overall existing service structure of Bangladesh Railway is dissatisfactory for the passengers.
- (i) Unwilling to answer (ii) Low support (iii) Support (iv) High support (v) Very high support
- 5. It is quite possible to overcome the challenges of Bangladesh Railway through the execution of establishment of a good service structure.
- (i) Unwilling to answer (ii) Low support (iii) Support (iv) High support (v) Very high support
- 6. Bangladesh Railway is failed to achieve its expected goals as it is directed with an unsuitable service structure.
- (i) Unwilling to answer (ii) Low support (iii) Support (iv) High support (v) Very high support
- 7. Punctuality of trains is not impressive.
- (i) Unwilling to answer (ii) Low support (iii) Support (iv) High support (v) Very high support

2. Good channels of distribution (Place) will play better role to run the organization well.

- (i) Unwilling to answer (ii) Low support (iii) Support (iv) High support (v) Very high support
- 3. Channels of distribution (Place) is not customer oriented.
- (i) Unwilling to answer (ii) Low support (iii) Support (iv) High support (v) Very high support
- 4. The existing channels of distribution (Place) is not appropriate for the present situation.
- (i) Unwilling to answer (ii) Low support (iii) Support (iv) High support (v) Very high support
- 5. The present channels of distribution (Place) should be changed.
- (i) Unwilling to answer (ii) Low support (iii) Support (iv) High support (v) Very high support
- 6. The organization will be more benefited it thresent distribution channel is changed.
- (i) Unwilling to answer (ii) Low support (iii) Support (iv) High support (v) Very high support
- 7. The present distribution channel (place) fails to achieve optimum levels of customer attraction.
- (i) Unwilling to answer (ii) Low support (iii) Support (iv) High support (v) Very high support

D. PROMOTION

- 1. The existing promotional policy is inappropriate for the present situation.
- (i) Unwilling to answer (ii) Low support (iii) Support (iv) High support (v) Very high support
- 2. Advertising program is necessary.
- (i) Unwilling to answer (ii) Low support (iii) Support (iv) High support (v) Very high support
- 3. The Salesmanship is not available and inefficient.
- (i) Unwilling to answer (ii) Low support (iii) Support (iv) High support (v) Very high support
- 4. The present promotional policy is not customer oriented.
- (i) Unwilling to answer (ii) Low support (iii) Support (iv) High support (v) Very high support

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QUESTIONNAIRE -2	
PRODUCT (RAILWAY SERVICE	E) RELATED QUESTIONS:
1. Is the service of Bangladesh your expectation?	Railwable to satisfy you and capable of accomplishing
(i) YES	(ii) NO
2. Is Bangladesh Railway giving (i) YES	you better service than other transportation? (ii) NO
3. Do you think that Bangladesh desired service?	Railway has enough equip ame ntnanpower to give your
(i) YES	(ii) NO
•	undamental development of Bangladesh Railway without ange, modification and enlargement? (ii) NO
PRICE RELATED QUESTIONS:	
5. Are you happy paying the pangladesh Railway?	price for that standard of service you are getting from
(i) YES	(ii) NO
6. Are you getting proper custome (i) YES	er care for the price you are paying? (ii) NO
7. Do you see may advancement structure?	of Bangladesh Railway service with the present pricing
(i) YES	(ii) NO
8. Is the current pricing structure (i) YES	of Bangladesh Railway low? (ii) NO

PEOPLE (STAFFS)	RELATED QUESTIONS:	
17. Is the manpower	structure of BR is huge er	nough to ensure customer care?
(i) YES	(ii) NO	-
18. Do you think the	at the existing railway exe	cutives and employees are performing their
duties and responsib	oilities with sound coodination	า?
(i) YES	(ii) NO	
`	g appointed officers and or proficiently as well as with a (ii) NO	employees of BR performing their relevant accountability?
	and subordinates of BR cace to satisfy you more?	apable enough pl áying effective role in

(ii) NO

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Chapter: 6

(i) YES

L) g~j" (fvov)

- 1) eZ©gvb mg‡qi Rb" †i‡j(fgeÿ) Am½wZc~Y©|
- K) DËi `v‡b B"QyK bLB; Kg mg_©b KwMI) mg_©b KwM) ‡ekx mg_©b KON)Lye †ekx mg_©b Kwi
- 2) Kvw•LZ j¶" AR©‡bi Rb" evsjv‡`k †ijI‡qi g~j" KvVv‡gv cwieZ©b cÖ‡qvRb|
 K) DËi `v‡b B"QyK ЫВ Kg mg_©b KWI) mg_©b KWI) ‡ekxgm©b KwiO)Lye †ekx
 mg_©b Kwi
- 3) GKwU DbœZ †hvMv‡hvM gva¨g nIqv m‡Ë¡I evsjv‡`k †ijI‡qi g~j¨ KvVv‡gv AZ¨šÍ `~e©j| K) DËi `v‡b B"QyK bb Kg mg_©b Kwi) mg_©b Kwi) ‡ekx mg_©b Ko)Lye †ekx mg_©b Kwi
- 4) cÖ‡`q g~j" (fvov) Ab**şevs‡**z**‡**`k†ijl‡qi hvÎxmvavi**ờ**h©vß hvÎx‡mev I mvwf©m †_‡K ewÂZ n‡"Q|
- K) DËi `v‡b B"QyK bLB Kg mg_©b KwM) †ekx mg_©b KW) ‡ekx mg_©b KW mg_©b Kwi
- 5) eZ©gvb g~j"KvVv‡gv cwieZ©b K**†#jl‡qsfvt**řMv‡hvM gva"‡g **Z∤ćwV**©ji**£**şwgKv ivL‡Z cvi‡e|
- K) DËi `v‡b B"QyK bLB; Kg mg_©b KwM) mg_©b KwM) ‡ekx mg_©b KON)Lye †ekx mg_©b Kwi
- 6) `~e©j g~j" (fvov) KvVv‡gv fv**¢jv**Īfenxqqtff®nh¶‡Î GKwU Ašĺivq|
- K) DËi `v‡b B"QyK bluB Kg mg_©b KwM) mg_©b KwM) ‡ekx mg_©b KON)iye †ekx mg_©b Kwi
- 7) g~j" KvVv‡gv cwieZ@to"tkiit)Y †hvMv‡hvM †¶‡Î evsjv‡`GK;ijltth;Zæ~Y© f~wgKv ivL‡Z cvi‡el
- K) DËi `v‡b B"QyK blub, Kg mg_©b Kwll) mg_©b Kwll) ‡ekx mg_©b Kon)Lye †ekx mg_©b Kwl

N)cÖ‡Yv`bv

- 1) Pjgvb cÖ‡Yv`bv bxwZ eZ©gvbnm%g本項cmV©_bq|
- K) DËi `v‡b B"QyK bLB; Kg mg_©b KwMI) mg_©b KwM) ‡ekx mg_©b KON)Lye †ekx mg_©b Kwi
- 2) cÖ‡Yv`bv KgcotffeFMÖAZ"vek"Kxql
- K) DÊi `v‡b B"QyK blub Kg mg_©b Kwll) mg_©b Kwll) ‡ekx mg_©b Kol)Lye †ekx mg_©b Kwl
- 3 F®Z=ÌYEZ8L ZHØT JgEYIYgHL \$IYH , \$CŽ=Y LgTg4_ K) DËi`v‡b B"QyK bLB; Kg mg_©b KwM) mg_©b KwM) ‡ekx mg_©b KoN)Lye †ekx mg_©b Kwi
- 4) eZ@gvb cÖ‡Yv`bv bxwZ hvlxMtbq|Rb" Dchy
- K) DËi `v‡b B"QyK blb; Kg mg_©b Kwll) mg_©b Kwl)‡ekx mg_©b Kwl)Lye †ekx mg_©b Kwi
- 5) Pjgvb cÖ‡Yv`bv bxwZi cwieZ©b Kiv cÖ‡qvRb|
- K) DËi `v‡b B"QyK blub Kg mg_©b Kwll) mg_©b Kwll) ‡ekx mg_©b KolyLye †ekx mg_©b Kwl
- 6) bZzb cÖ‡Yv`bv bxwZ cÖwZôvbwU‡K Av‡iv jvfRbK K‡i Zzj‡e|
- K) DËi `v‡BB"QyK bBL) Kg mg_©b KWMI) mg_©b KWM) ‡ekx mg_©b KON)Lye †ekx mg_©b Kwi
- 7) bZzb cÖ‡Yv`bv bxwZ hvÎxmvaviY‡K Avil AvK...ó Ki‡Z mnvqK n‡e|
- K) DËi `v‡b B"QyK bLB; Kg mg_©b KwMI) mg_©b KwM) ‡ekx mg_©b KON)Lye †ekx mg_©b Kwi

wØZxq AsØkœg2jv

K) c	Y" (†ijl‡q mvw	©m)
	K) evsjv‡`k †ij	‡qimvwf©m wK A \Pobvr ‡`iv Ges AvKv∙Lv c~i‡Y m¶g?
	1) nu¨v	2) bv
	L) evsjv‡`k†ij	‡q Ab¨vb¨ †hvMv‡hvM gva¨‡gi †P‡q A‡c¶vK…Z DbœZi †mev cÖ`vb Ki‡Q
	1) nu¨v	2) bv
	M) Avcwb wK i‡q‡Q?	g‡b K‡ib, Kvw•LZ †mev cÖ`v‡bi Rb¨ evsjv‡`k †ijl‡qi cÖ‡qvRbxq †jvKej I r
	1) nu¨v	2) bv
	N) evsjv‡`k †ij m¤¢e?	‡qiAeKvVv‡gvMZ cwieZ©b, cwigvR©b I cwiea©b Qvov wK GKwU †gŠwjK
	1) nu¨v	2) bv
<u>L) g-</u>	- <u>j" (fvo</u> v)	
	K) evsjv‡`k †ij‡	qi †mevi gvb Abyhvqx Avcbv‡K †h A_© cÖ`vb Ki‡Z n‡"Q, Zv‡Z Avcwb wK
	1) nu¨v	2) bv
	L) cÖ‡`q A_© .	Abyhvqx ⁄Bø∱wbwl̂w ≰mev cv‡"Qb?
	1) nu¨v	2) bv
	M)eZ©gvb g~j	KvVv‡gv Ae¨vnZ †i‡L evsjv‡`k †ijI‡qi †Kvb DbœwZ †`L‡Z cvb wK?
	1) nu¨v	2) bv
	N)evsjv‡`k †ijl:	:qi eZ©gvb g∼j¨ KvVv‡gv wK wbgœ⁻͇ii?
	1) nu"v	2) bv

N) Kg	g©evwnbx
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K) evsjv‡`k †ijl‡qi †jvKeKvVv‡gK hvÎx‡mev cÖ`vb wbwðZKi‡Yi Rb" h‡_ó?

1) nu"v 2) bv

L) evsjv‡`k †ijI‡qi eZ©gvb wbe©vnx Awdmvi I Kg©x‡`i `vwqZ¡ cvj‡b †Kvb mgš^qnxbZv Avg‡b K‡ibK®

1) nu["]v 2) bv

M)evsjv‡`k †ijI‡q‡Z ŵbæß@gvb Awdmvi I Kg©xM‡Yi `vwqZ¡ cvj‡bi †¶‡Î `¶Zv I Revew`wnZv Afve i‡q‡Q wK?

1) nu["]v 2) bv

N) †mev #bÖgwa"‡@\vcbv‡K Avil mš'wó cÖ`v‡b evsjv‡`k †ijl‡qi Awdmvi l Zv‡`i Aaxb⁻Í Kg©PvixMY ZÖ‡‡qvRfbxngKvvivRb"h‡_dDchy&³ wK bv?

1) nu"v 2) bv