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# HEAVY COMMERCIAL VEHICLE AFTER SALES SERVICE AND CUSTOMER RELATIONSHIP MARKETING STRATEGY – AN OBSERVATIONS WITHIN INDIAN MINING SEGMENT APPLICATION

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#### Abstract:

Heavy commercial vehicle (mining tippers) are playing vital role from development of mines to transportation of coals at loading point. After sales service refers to various processes which make sure customers are satisfied with the products and services of the organization. After sales service plays an important role in customer satisfaction and customer retention and generates loyal customers. The major activities of after-sales success in the manufacturing industry, have been identified as field technical assistance, spare parts distribution and customer care. Service quality impacts on satisfaction, satisfaction on customer retention (customer loyalty), and customer retention has impact on profitability. Heavy commercial vehicle companies are shifting their emphasis from original products sales to customer needs; customers find value in the trouble-free operation of products. After Sales operations have a very broad scope and contain all activities related to maintaining a vehicle after its initial sale and until the end of its lifecycle. Spare parts distribution is responsible for inventory management, customer order management and delivery of spare parts. The relationship between a company and a customer had been formed on a product centric view. Presently, businesses this view has been changed and the aim is to focus on maintaining relationship with customers as there are values for both parties.

#### **Introduction:**

India has a long history of commercial coal mining covering nearly 220 years and coal reserves are one of the largest in the world. Coal India Limited (CIL) as an organized state owned coal mining corporate came into being in November 1975 with the government taking over private coal mines, with a modest production of 79 Million Tonnes (MTs) at the year of its inception. Coal India limited and its subsidiaries accounted for 494.23 million tonnes during 2014-15 as against a

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production of 462.41 million tonnes in 2013-14 showing a growth of 6.9%. To enhance further production Coal India started awarding contract to private operators, they are engaged in mine development, production to transportation till loading point <sup>1</sup>.

Heavy commercial vehicle (mining tippers) are playing vital role from development of mines to transportation of coals at loading point. The manufacturers are lining up new models and expanding production capacity to tap the coal sector market. The Indian market has witnessed entry of a number of multinational companies and, now competing with local. Today many private companies are operating through Coal India mines from different parts of India. They are individual or with JV Company are handling the site and focusing on target production of Coal India. These customers are large fleet owners and engaged in operations at various locations of India. Moreover, maximum are as remote location places where availability of required facility is the concern, so these customers are mostly depended on the manufactures and their service providers. In addition to this they also challenge of skill manpower availability at remote places, mining operation, road conditions and other unavoidable factors are affecting on fleet operation as well as life of the products. In such conditions enhance product life and maintain long term customer relation is one of the key area for the heavy commercial vehicle manufacturers and many of them are came forward with service support solution to support customer and retain long term customer relation<sup>2</sup>.

After sales service refers to various processes which make sure customers are satisfied with the products and services of the organization. After sales service plays an important role in customer satisfaction and customer retention and generates loyal customers. After sales service plays a pivotal role in strengthening the bond between the organization and customers. The major activities of aftersales success in the manufacturing industry, have been identified as field technical assistance, spare parts distribution and customer care. It is necessary to align all three main activities with the aim of having a successful and comprehensive after-sales offer<sup>3</sup>

In the past, the relationship between a company and a customer had been formed on a product centric view. Presently, businesses this view has been changed and the aim is to focus on maintaining relationship with customers as there are values for both parties. Heavy Commercial Vehicle manufacturers and service providers are started following customer on the philosophy is to get closer to the customer to provide extraordinary service support by ensuring uptime of our customer vehicles and keep the trucks in the best working condition to ensure they deliver the best in terms of fuel economy and component life. A crucial element in differentiating a company's offer and excelling in meeting customers' needs is by providing services<sup>2</sup>. After-sales service is considered as a tool for enhancing a valuable advantage for the customer as well as it is a business opportunity for the company.

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#### **Problem Discussion:**

The concept of after sales services including installation and start up, training, maintenance and repair, spare parts, warranty, documentation, software services, product improvement and providing logistic<sup>4</sup>. Such services are important as they have effects on product quality enhancement, gaining competitive advantages, achieving profitable opportunities end to increase in sales and income<sup>5</sup>. The after sales services, creating a long term relationship with customers<sup>7</sup> in one of research indicated that organizations are dedicating more and more recourses to after-sales and large number of firms have after-sales department with employees focusing only on providing after-sales services and developing after-sales offers<sup>6</sup>. Perspectives of relationship marketing can be described as targeting profitable customers using strongest possible strategies for customer bonding, and building trust as a marketing tool<sup>7</sup>. There are various activities which are dedicated towards enhancing relationship with customers and after-sales service lengthens interactions with customers and provides basis for influencing and developing the relationship<sup>8</sup>.

The focus of this study is after sales service in heavy commercial vehicle within Indian mining segment and its linking with customer relationship marketing as well as how after-sales activities differs in company to company. The purpose of this study to Investigate the major activities of after-sales service focusing on customer relationship among Heavy Commercial Vehicle after-sales service providers in the mining segment.

#### Literature Review

#### **After Sales Service:**

After sales service refers to various processes which make sure customers are satisfied with the products and services of the organization. The role of manufacturers cannot finish with sales; they should provide a set of supporting after-sale services to their customers. These supporting activities may include installation packages, technical advice, repair, maintenance, spare part delivery and upgrading packages and so on. The after-sales activities are approved to be an accordant source of revenue, profit and competitive advantage in most of today's manufacturing industries. The term after-sales services and activities refer to those taking place after the purchase of the product and dedicated to support customers in the usage and disposal of goods. By offering good service, it shows the customers that the company stands behind and supports the quality of the offered products<sup>9</sup>.

The quality of the customer service cannot make significant difference if the product itself has disappointing quality; whereas, poor customer service can quickly contradict the advantages associated with a product offer of superior quality. Service quality impacts on satisfaction, satisfaction on customer retention, and customer retention has impact on profitability<sup>10</sup>.

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#### Relationship and Customer Service in heavy commercial vehicle:

The strategy for success and survival in competitive business environment are quality service and extended service programs; these attempts are driving the customer's perception of a company's products in the right direction. The quality services show the customers that the company stands behind and supports the quality of the offered products<sup>9</sup>. Service quality impacts on satisfaction, satisfaction on customer retention (customer loyalty), and customer retention has impact on profitability<sup>10</sup>. This chain of impacts from the firm's point of view in relation to the economical outcome of a customer relationship through service quality improvements. With the focus on profit, the research concludes that service management and its concept of perceived service quality are tied together with relationship marketing. Successful relationship marketing depends on a large degree on the competency of firms to add value by various types of services on top of the core solutions offered to customers and clients. It is essential to have thorough understanding of service management before a relationship marketing strategy can successfully be implemented<sup>11</sup>.

#### **Relationship Strategies in Heavy Commercial Vehicle**

The after-sales business has emerged as a major source of competitive strategy, that firms strive for competitive advantages with their after-sales service offer. Heavy commercial vehicle companies are shifting their emphasis from original products sales to customer needs; customers find value in the trouble-free operation of products. After-sales services enhance product availability during the entire product life cycle and are key to long term company success. Relationship strategy is a means of improving performance metrics comprising of customer satisfaction, retention and loyalty<sup>12</sup>. Managing a relationship with quality is essential to reach corporate success<sup>13</sup> Maintaining customer relationship through a long-term perspective results in satisfied and loyal customers, which thus, develops a firm's financial and competitive position in its markets. In heavy commercial vehicle company, customers are offered with individualized and customized services support<sup>14</sup>.

#### **Heavy Commercial Vehicle After Sales Activities:**

Heavy Commercial Vehicle After Sales operations have a very broad scope and contain all activities related to maintaining a vehicle after its initial sale and until the end of its lifecycle. The relevant activities are also referred to as after sales services and parts. The after sale encompasses all parts and services purchased for the vehicles after the original sale, including replacement parts, lubricants, and service repairs and all the operations with a lasting effect on customer satisfaction.

There are several classifications of activities within after-sales services; to mention few: customer support, product support, technical support and customer service<sup>5</sup>. Furthermore, Heavy

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Commercial Vehicle After-sales could be seen as a business, consisting of multiple activities. The three major activities critical to after-sales' successes are: field technical support, spare parts distribution and customer care<sup>3</sup>.

#### **Heavy Commercial Vehicle Customer Care (Support)**

Customer care is help to develop customer loyalty and improve relationships with the customers. In heavy commercial vehicle company Customer care is usually described as an activity which provides technical and service commercial information and services like warranty extension and complaint management. There are different types of customer care and it is distributed on different levels; through a centralized call centre, through the direct from company and through the local service centres (service dealers) that provide technical information to customers.

#### **Heavy Commercial Vehicle Field Technical Support**

Field technical support is the support provided from seller to buyer where the buyer can receive encompassing installation, warranty work as well as out-of-warranty service and repairs, product disposal and check-ups<sup>3</sup>. Heavy commercial vehicle companies are focusing on 24X7 supports for mining operation by offering various service packages like onsite support, onsite workshop, customised service contract to provide support to vehicle fleet.

#### **Heavy Commercial Vehicle Spare Parts Distribution**

Spare parts distribution is responsible for inventory management, customer order management and delivery of spare parts<sup>3</sup>. This is one of the most important functions in after sales for customer throughout the consumption of product. The main purpose with spare parts distribution is to ensure the right availability of spare parts at the right time for the customer needs. It also helps to provide timely repairs of customer vehicle and reduce extended equipment down-time. The delivery of spare parts quickly is key aspect of after sales service in heavy commercial vehicle company.

#### **Research Objectives**

- OB 1. To study how customer care executed by heavy commercial vehicle company for the application of mining operation.
- OB 2.. To understand the level of field technical support executed by heavy commercial vehicle company for the application of mining operation.
- OB 3. To study the spare parts distribution network executed by heavy commercial vehicle company for mining segment support
- OB 4. To understand how after-sales services contribute to customer relationship marketing in heavy commercial vehicle company

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#### **Research Methodology:**

A multiple Company study was done to investigate the importance of various activity of after sales. For this study an empirical setting will be used.

#### Sample:

The cases used in this research are three different heavy commercial vehicle after-sales service providing organizations in Indian mining segment.

The interviews were conducted with one specialist working with after-sales on daily basis and a manager of the relevant field.

#### **Data Collection:**

An investigation of three companies from the Heavy commercial vehicle, selling the same kind of products on the mining segment, was needed to meet the objective of this study. The focus group are managers from competing companies and the most suitable data collection method chosen is in-depth interviews.

#### **Data Analysis Methods:**

Data reduction, Data display, Pattern matching and conclusion drawing

#### **Result and Discussion**

General information regarding the companies which are working in mining segment are investigated in this study is presented in table 1. The collected empirical data is elaborated in case by case in the following sections.

	Company A	Company B	Company C
No. of Interview	2	2	1
<b>Position of the respondents</b>	Team Leader (Parts) Regional Manager Service	Manager Parts Regional Manager Service	Manager After Sales
Years of employment at the organization	3 Years 10 Years	10 Years 6 Years	5 Years
Years of experience in the industry	15 Years 20 Years	20 Years	10 Years
Number of people working with after sales	61	35	
Year of establishment of the organization	2006	2007	2006

Table 1 : Information

#### **Customer Care (Support):**

#### **Information Provision:**

Technical and commercial information are provided through customer support helpdesk and by mails. In case of direct contact, customers have the options of contacting company representative

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through telephone, e-mail and letter. However, the most common contact method to reach the company is through telephone and e-mail. Customers can approach either by toll free numbers or the normal telephone line. All three cases have responsible personnel to handle customer. The companies had the policy for the speed of reply; this could indicate that it is not necessary for this type of segment application. The availability of the after-sales providers was relatively similar. However, the big organization provided additional service to serve customers after their working hours.

Information Provision			
	Company A	Company B	Company C
Technical and Commercial Information	Website, Email and Broachers	Website, Email and Broachers	Website, Email and Broachers
Contact Methods	Customer Helpline, Email and Telephone	Customer Support Centre and Email	Email and Telephone
Cost of call	Toll Free	Toll Free	Standard call charges
Availability	830 AM to 630 PM	830 AM to 630 PM	800 AM to 530 PM
Reply to Customer	Depend on the nature of information	Same day	Same Day
Contact Person	No single contact point is available	Customer Support Helpline	Customer Support Helpline

Table 2: Informative Provision

#### **Complaint Management:**

All the three cases have the specific procedure to handle complaints which is understandable and there are service team and service dealers working with after-sales service full-time. The employees can flexibly discuss complaints as it occurs based on their experience and knowledge without setting regulations beforehand. In case of Company C, they have their own service network and service outlets nearby customer vehicle operation locations. In comparison to other Company B approach is far more regulated they have assign mining segment customers to one single service provider for pan India. The volume of vehicle sale of Company A is less compare to other two company and they have service dealer network which not profitable, so some of the area company are directly involve in service support activity. A summary of complaint management process is shown on table.

Some complaints can be

Services to customer direct

solved directly

company

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Complaint Management			
Company A	Company B	Company C	
Through customer support helpline The procedure depends on individual case.	Through customer support helpline The procedure depends on the	Through customer support helpline The procedure depends on individual case.	

standard guideline published

Services to customer through

by company

service provider

Table 3: Complaint Management

Complaint Handling

Process

#### Warranty and Warranty Extension:

Some complaints can be

Services to customer direct

company or service provider

solved directly

In the three case studies, each company warranty offer differs as shown on table. Company A, B and C offers one warranty that apply for all its products and the have defined the standard terms and conditions as per the company norms. The warranty period and warranty offerings of three companies are different. The extension of warranty are also possible in all three cases with additional cost. Company B have the standard published guidelines for extension warranty and they are offering extension for 12 – 24 Months. Company A and C offering only 12 Months warranty extension in mining application vehicle.

Warranty and Warranty Extension				
	Company A	Company B	Company C	
Standard Warranty	24 Months, 4000 Hrs Standard terms and conditions are applicable	24Months, 4000 Hrs Standard terms and conditions are applicable	24 Months, 4000 Hrs Standard terms and conditions are applicable	
Warranty Extension	12 Months, 1000 Hrs	12 Months, 2000 Hrs 24 Months, 4000 Hrs	12 Months, 1000 Hrs	
Extension Warranty Cost	Not fixed	Fixed	Not fixed	

Table 4: Warranty and Warranty Extension

#### **Field Technical Assistance (Support):**

The field technical assistance as the assistance provided from seller to buyer where the buyer can receive encompassing installation, warranty work as well as out-of-warranty repairs, product disposal and check-ups<sup>3</sup>. Company C handles all after-sales activities by its own network. Thus, the reputation of the Company C is relatively better than Company A and B. Company A has service dealer network but due to less volume sale, they are not much active in some of region, so in that case company are taking care of customer. Company B has single service provider in pan India for mining application.

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#### **Service Inspection:**

Company C executes the field technical assistance activities themselves, Company A and B conducts it through service providers. Company C takes care of all its field technical assistance as well as check-ups, it is stated in the interview that the company prefers taking care of check-ups and field technical assistance themselves to take full responsibility of their products and build a close relationship with its customers. Whereas Company B executes the service support through single service dealer to takes care of all its field technical support, it is stated in the interview that the company prefers this type support to take full responsibility of their products and build a close relationship with its customers and provide equal support at all locations, so that customer should not feel difference in service.

Service Inspection			
4	Company A	Company B	Company C
Provision of Inspection	Service dealers are responsible for service inspection	Service dealers are responsible for service inspection	Provides checks themselves
Frequency of check ups	Every 500 hours of vehicle operation	Every 1000 hours of vehicle operation	Every 500 hours of vehicle operation
Warranty Service	Manpower cost are covered by company. Consumable are chargeable	Manpower cost are covered by company. Consumable are chargeable	Manpower cost are covered by company. Consumable are chargeable
After Warranty	Manpower and consumables are chargeable.	Manpower and consumables are chargeable.	Manpower and consumables are chargeable.

Table 5: Service Inspection

The companies also differ on how frequent they provide service check-ups, Company B has a more established way of supplying check-ups, the customer will receive check-ups after the machine has been used 1000 hours and then after 1000 hours. Company C has technicians continuously working at site and able to provide check-ups if the customer requests it. Additionally, Company C has a routine of calling the customer after large reparations are made.

The main purpose of warranty is to provide an after sale remedy for the customer when a product fails to meet its intended achievement during a certain period. In the interview company representative indicated that the cost of service inspection labor is covered by company and consumables are at cost to customer. All three companies are follow the same procedure in mining segment.

#### **Service Management:**

The number of warehouses as well as repair centers increases relative to the size of the

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company, customer base and vehicle operation. For all cases, it was their distributor network which determined the number of warehouses and repair centers. The company is also aware of the importance of holding spare parts inventory; thus, they have introduced a thorough enterprise resource system for their central spare parts warehouse. The main purpose with spare parts distribution is considered as ensuring the right availability of spare parts at the right time for the customers' needs<sup>15</sup>. While, warehouses and repair centers can represent the ease of access, well organized delivery can indicate the right time perspective.

Service Management				
	Company A	Company B	Company C	
Nos of Warehouses	04	01	01	
Nos of Repair Centre	72	115	160	
Location of Repair Centre	Pan India	Pan India	Pan India	
Spare Parts Delivery	Within 24 hours after receipt of confirm order	Within 24 hours after receipt of confirm order	Within 24 hours after receipt of confirm order	
Spare Parts Ordering Process	Customer to Service Dealer Service Dealer to Company	Customer to Service Dealer Service Dealer to Company	Customer to direct Company	

Table 6: Service Management

In the investigated cases in heavy commercial vehicle company, the average speed of delivery is similar between all companies. Only in case of company C, customer have direct access with company so they are getting fast response compare to company A and B. Company B is more active in terms of spare parts delivery, they are using air services in case of emergency order or vehicle off road order. Company A using road transport services and many times they facing delivery issue at remote location, it take days to deliver the spare parts.

#### **Customer Relationship Marketing:**

#### **Service Quality:**

In all three of the cases, the goal of providing after-sales service seemed evident for the respondents, it is to satisfy customers' needs and demands. Case B and C particularly considered after-sales to be the main mission of their work, with the goals of satisfying the customer requirements after purchase and to maintain the customer until the next purchase of a new machine. Poor customer service can quickly contradict the advantages associated with a product offer of superior quality<sup>16</sup>; therefore the companies need to apply superior service quality to stay competitive.

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Service Quality				
	Company A	Company B	Company C	
Delayed in delivery	High	< 5%	Not measured.	
Frequency of defective parts delivery	Approximate 01 per month	No	2 times per year	
Frequency of inaccurate deliveries	It occurs due to the many types of machines, consisting of different parts and features	It occurs and usually due to misinterpretations or customers have ordered the wrong parts.	Approximately once per month. Reasons vary, it could be due to the human factor, computer defaults.	
Repeat complaint	5 – 10%	< 3 %	< 5%	
Complaint restoration time	Average 48 – 72 Hours	Average < 48 Hours	Average < 48 Hours	

Table 7: Service Quality

The heavy commercial vehicle companies need to apply superior service quality standards to stay competitive. Measuring the service quality comprised questions related to delayed deliveries, defective parts deliveries, and inaccurate deliveries, repeat service complaint and service complaint restoration time, which are computed in table. It has been observed that, in all the three cases, there was lack of accurate measurement on the frequency of delayed, defective or inaccurate delivery occurrences. In terms of service response company B and C are giving good service support to customer, the repeat complaint rate is less than 5% means they are restoring the vehicle in one go which resulting higher vehicle up time.

#### **Customer Relationship Profitability:**

The financial outcome of a customer relationship through service quality improvements is resulting in that service management and perceived service quality are tied together with relationship marketing<sup>11</sup>.

Customer Relationship Profitability				
	Company A	Company B	Company C	
Methods of order placing	Through DMS, Online	Through DMS, Online	Through Email	
Frequency of backorder	40%	10%	10%	
Average back order days	> 30 days	-	30 days	
Estimated profit from after sales	Not calculated.	Not estimated.	Service and Spare parts generates the largest part of the after-sales activities.	
After Sales influence on customer relationship	Extremely important	After-sales influence the relationship, to the extent that the customers will change brand if not handled correctly.	After Sales influence the reputation of the company in market.	

Table 8: Customer Relationship Profitability

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As indicated in table, the estimated profit from after-sales proved to be a rather difficult question for the respondents to answer. There was no concrete answer regarding the estimation on profit made on after-sales activities. The service management and perceived service quality affects the financial outcome on customer relationship, the successfulness of the service quality should be able to be measured based on profitability<sup>11</sup>. The chain of impacts regarding service quality's impact on satisfaction, satisfaction's impact on customer retention and customer retention impacts on profitability has been measured in terms of methods of placing order and backordered availability<sup>10</sup>. The methods available for placing an order are same, in case A and B the methods are similar. In case C, the customers are directly placing order to company through email and company representative are logging it to DMS.

The frequency of backordered items was answered differently by the three companies. It seems as if Company B and C mostly manage their orders instantly, the frequency is seldom, while Company A view the frequency of backordered items as something unpredictable. It can take some time if the ordered items are no longer in production or the supplier has reduced items in the warehouses and so forth. All three companies expressed its view point on the impact after-sales services have upon the relationship with its customer. Thus, the awareness of the importance of providing high quality service indicates that the companies consciously try to structure their after-sales services in a way that will satisfy their customers.

#### **Conclusion:**

The purpose of the study was to investigate the major activities of heavy commercial vehicle after-sales service focusing on customer relationship among different companies in mining segment application. This study suggests that customer care is the most focused activity of after-sales services in the heavy commercial vehicle company for this segment of application. Technical and commercial information provision is progressively more important in mining segment application and all three companies are supporting customer. When the turnover of the company is higher, they focus on availability and have more structured and effective way of responding to customers. Moreover, customer care is executed on relatively similar in all companies and the after-sales employees had equal responsibilities to provide customer care in case it is needed.

The companies have a pre-defined procedure for providing field technical assistance in mining segment and today approach is one step ahead due to its proactive nature; problems are discovered before they occur. The warranty features become more extended and complex due more competition in this segment.

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Spare parts distribution can be considered as the most profitable activity of after-sales. The warehouses and repair centers of companies naturally varied per firm sizes. To meet customer demand, the warehouses and repair centers are located all around, especially in the bigger cities. The location of the warehouses as well as internal communication systems can influence the delivery time of spare parts to customers.

The heavy commercial vehicle companies do not have accurate measurements for delayed, inaccurate or defective parts deliveries. They are aware of the incidents, especially when it comes to defective parts deliveries; they are not able to identify the cause of the problem. The awareness of the importance to provide quality after sales services, the services are consciously structured by the companies, consequently after-sales services contribution to customer relationship marketing in all companies are equal.

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