EMPIRICAL REVIEW OF FACTORS AFFECTING BUYING BEHAVIOR IN HEI’S OF KHYBER PAKHTOONKHWA PROVINCE (PAKISTAN)

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Article History: Received on 14th June 2021, Revised on 23rd June 2021, Published on 28th June 2021

Purpose of the study: The purpose of this study was to highlight factors that affect buying practices in higher education institutions.

Methodology: A questionnaire was used to collect primary data from respondents of higher education institutions of Khyber Pakhtunkhwa (Pakistan). Correlation & Regression tests were applied with the help of SPSS for checking association and cause and effect relationship between predictors and criterion variables.

Main findings: Findings of the study reveal that institutional goals, objectives, policies & procedures regarding the purchase, relationship with the suppliers & their credibility, product knowledge, and intangibility are some key factors that affect the buying behavior of individuals in institutions.

Applications of the study: Study will help institutional buyers in particular and others in general to reduce brand sensitivity & risk associated with the purchase by following established procedures and policies. The study will help marketers in devising corporate and marketing strategies in different environments to overcome competition.

Novelty/Originality of this study: The area of institutional buying in terms of branding has been largely ignored by researchers and academicians previously due to which this area remained underdeveloped theoretically. The study reveals the importance of various factors in institutional buying context and knowledge of these factors will help institutional buyers in particular and others in general, in reducing risk and uncertainty, by overcoming the complexity involved in institutional buying patterns.

Keywords: Higher Education Institutions, Institutional Buying, Buying Behavior, Positivism.

INTRODUCTION

Buying behavior refers to various decisions taken by individuals and businesses for buying goods and services to meet their needs. Institutional buying is a recurring activity undertaken with the aim to meet institutional needs. It engages individuals from top management to lower management because of the complexity involved in institutional purchases. Different factors need to be taken into account to ensure efficient and effective buying practices (Webster & Wind, 1972). Higher educational institutions have been playing a key role in disseminating knowledge in the country by positively influencing its growth, provide help for better education policies, enable people for sharpening their skills and make their living better than ever (Castells, 1994; Milligan, Moretti & Oreopoulos, 2003). The educational system is facing many ills whereas in Pakistan higher education is improving at the cost of primary education where educational budgets are inadequate (Memon, 2007). Higher education needs more attention from the state to keep it on the healthy footings by helping people to improve their education and social living towards nationality prosperity.

The educational system is facing many ills whereas in Pakistan higher education is improving at the cost of primary education where educational budgets are inadequate (Afzal, Farooq, Ahmad, Begum & Qudullu, 2010). The higher education needs more attention of the state to keep it on healthy footings by helping individuals to improve their education and social living towards the nationality prosperity. Higher education is facing new challenges due to the concept of globalization, international education, and worldwide citizenship (Kayani, Akbar, Faisal, Kayani & Ghuman, 2017). The educational policy has been the main focus of the information age worker in the USA whereas domestic and foreign diversity are least considered. Education in the daily life domain prepares masses for interaction and provides supportive help for existence (Maia, Qoraboyev & Gimranova, 2021). In this connection, for achieving sustainability, dissemination of knowledge and skill development should be the main aim of states to get growing better social living and economic prosperity.

Problem Statement

Institutional buying has received slight attention in terms of branding to that of consumer buying, and has been largely ignored previously by researchers and academicians due to which this area remained theoretically underdeveloped. Because of less attention in the previous literature and complexity involved in institutional buying, a need was felt to investigate determinants of buying behavior in Higher Education institutions of Khyber Pakhtunkhwa (Pakistan).
Study Objectives

This study was conducted to explore determinants of buying behavior in Higher Education Institutions, to check the association between predictors and criterion variables, and further to check the impact of predictors on the criterion variable.

LITERATURE REVIEW

Institutional Buying behavior

Buying behavior with respect to organization and institution is indeed a complex phenomenon and cannot be easily comprehended by some factors i.e price, total cost, reciprocity, as well as ego enhancement rather there must be a complete model to deal with the complexity of organizational buying decisions involving many people (users, deciders, influencers, and buyers) with technical nature, are made over long periods of the time and require complex interaction of the personal, interpersonal, organizational, and environmental factors for determining the buyer response (Webster & Wind, 1972). Institutional buying is the task of engaging individuals from top management and other sections of the institution. Buyer behaviors in institutions differ because of the level of risk associated with purchase situations for the rapid decision making. The act of buying (goods and services) for govt. is to procure something.

Whereas to acquire something is a broader concept and covers the whole system of acquisition (i.e. getting concept; initiation; making design; concept development & testing; getting contract; producing; logistical support; modify and dispose of supplies and/or services for satisfaction) (Robinson et al., 1967; Brand, 1972). The buying behavior has a significant impact on intentions in the purchase of various items for use in a professional environment that need further investigation to take the decision. Institutional procurement engages individuals from top management and other sections of the institution because of the risk associated with purchase situations in rapid decision-making in particular situations.

The procurement process consists of certain stages in institutional buying i.e: identifying needs and suppliers, supplier communication (RFQ, RFP, RFI & RFT), negotiation, supplier relationship, managing logistic support, and tendering (Robinson, Faris & Wind, 1967).

Organizational Factors

Institutional members are buying center members, who acquire goods and services in a certain process, where buying roles remain the same whereas participants do change (Robinson et al., 1967). Buying center is consisting of different people for different purchases instead of an identified unit. At times one individual may represent the entire buying role in some purchases whereas in other cases buying center may be the larger unit with many individuals (Kotler & Armstrong, 2008). Buying center includes all the individuals who are part of the buying network. The people and departments being parts of the system perform information functions processing and communication that help in developing a system for work (Schroder et al., 1966). Structured procedures with regard to purchases will offset the psychological risk of high intensity and buying center members feel a low risk and pursue clear decision making (Newall, 1977). Procedural control may consist of a formal system (procedural guide book & standard vendor list) or an informal system (rule of thumb principle) (Johnston and Lewin, 1994). Buying situations and the business buyers determine circumstances for brand repute that might be a significant factor in purchase decision (Mdumbi, 2002).

Procedural control has a key role in guiding for purchase evaluation in terms of well-set policies; methods and practices (Hunter et al., 2006).

Buying Situational Factors

Institutional buyer sensitivity in naming products or services may be affected by situational factors with respect to purchasing (i.e. importance & complexity of purchases; newness; time limitation etc.) (Sheth, 1973). The powerful factors of buying decision process are newness of the purchase situation with respect to the complexity & importance of the purchase (Johnston and Bonoma 1981). Buyers rely more on branded products because of the involvement of perceived risk in purchases (Valla, 1982). Purchase importance is “the impact of purchase on organizational profitability and productivity”. The complexity of the situation and that of the product are the two studied areas by researchers in business buying settings. The complexity of the purchase is, how much information the organization must gather to make an accurate evaluation of the product? The newness of product purchase affects the consumer level of perceived risk (McQuiston, 1989). The importance of branding increases with the increase in the complexity of buying situations (Bendixen et al., 2004).

Product Factors

In institutional buying buyer judgments are affected by the integrity of reputable organization concerning complex products and materials. Source credibility dominates other factors and helps consumers in deciding about going for or rejecting a new product where risk consequences are high (Levitt, 1967). Products & services hold variation in the degree of intangibility due to which services carry high intangibility comparing to commodities. A positive correlation exists between intangibility and purchase risk (McDougall & Snetsinger, 1990; Laroche et al., 2004). In the buyer-seller relationship ‘corporate brands’ play, a key role due to company repute, and relationships between the parties are affected positively because of long-term interaction (Chernatony, 1998). Product performance is the core of brand value whereas...
supply or distribution presentation denotes easy ordering and speedy delivery (Mudambi et al., 1997). The corporate identity of vendors is the main concern of business buyers in buying specific products (de Chernatony and McDonald, 1998). The corporate repute of a firm is difficult for competitors in terms of imitation and further, it boosts value without regarding the market (Grant, 1986; and Michell et al., 2001). The brand name signifies the company name in the institutional and organizational setup (Shipley and Howard, 1993; Michell et al., 2001).

**Individual Factors**

In the Institutional buying context, decisions are not made by one person rather a group of individuals and interpersonal factors become part of the decision-making process in organizations. Individual buying behavior is affected by individual characteristics like income, education, age, etc. Certain interpersonal factors like power, position, relations also affect the institutional buying process due to the involvement of more than one person in the buying process (Kotler & Armstrong, 2008). Brand knowledge is defined as all brand-related information of descriptive and evaluative nature in consumer memory. Buyers with more product information and in-depth understanding regarding various brands are quick enough ineffective brand evaluation and quality resolve (Anderson, Engledow, & Becker, 1980). Buyer product knowledge must talk about product awareness and individual capability while buying. Knowledgeable buyers use product quality as a base for evaluating purchases and hardly get inclined by price (Laroche, Bergeron & Goutaland, 2003; Baker, Hunt, & Scribner, 2002). Innovative firms are considering benchmarks for comparison with counterparts who are less on innovation (Massini et al., 2005). Because of the risk involved in institutional buying, certain areas i.e. relationship of buying and selling firms, placement of service, etc., may be affected (Webster and Keller, 2004) whereas Knowledge, risk perception, and risk attitude of buyers play important role in decision-making process when buying store brands and national brands (Erdem et al., 2004).

**Theoretical Framework**

![Determinants of Buying Behavior in HEIs](image.png)

**Figure 1:** Showing relationship between predictors, criterion, and demographic variables

**Research Hypothesis**

1. There is a significant relationship between predictors and criterion variables.
2. All the predictors have a significant impact on the criterion variable.

**METHODOLOGY**

The philosophy used in this study was positivism (a combination of doxology and epistemology). The study conducted was exploratory and descriptive in nature. The census approach was used for collecting primary data (quantitative) with the help of a self-administered questionnaire (adapted) on a five-point Likert scale, from the respondents of HEIs in Khyber Pakhtunkhwa (Pakistan) and was analyzed with the help of SPSS for checking correlation and association between different variables. Adapted scales was used for measuring buying behavior organization factors (Barclay, 1991; Hunter et al., 2006), situational factors (cannon and Perrault, 1999), product factors (Laroche et al., 2004) and individual factor (Donthu & Gilliland, 1996; Donthu & Garcia, 1999). Scale reliability was checked with ‘Cronbach Alpha’, giving an average value of 0.863 (average) for different factors. For checking normality of data different tests are used and among these Kolmogorov-Smirnov (K-S) and Shapiro-Wilk tests, which are the most popular ones. The population of the study was purchase committee members (officers/managers) of Higher Education Institutions in the province Khyber Pakhtunkhwa (Pakistan). As the population of this study was finite therefore census approach was used for collecting data. Responses of 130 respondents were collected with 86% response rate.

**ANALYSIS & DISCUSSION**

**Correlation Analysis**

H1: All the predictors are significantly correlated with the criterion variable.
The below table shows that Predictors are correlated with the criterion variable.

### Table 1: Correlation

<table>
<thead>
<tr>
<th></th>
<th>Organizational factors</th>
<th>Situational factors</th>
<th>Product factors</th>
<th>Individual factors</th>
<th>Buying behavior</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Organizational</strong></td>
<td>Pearson Correlation</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Factors</td>
<td>.275**</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sig. (2-tailed)</td>
<td>.002</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>N</td>
<td>130</td>
<td>130</td>
<td>130</td>
<td>130</td>
<td>130</td>
</tr>
<tr>
<td><strong>Situational</strong></td>
<td>Pearson Correlation</td>
<td>.416**</td>
<td>.455**</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Factors</td>
<td>Sig. (2-tailed)</td>
<td>.000</td>
<td>.000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>N</td>
<td>130</td>
<td>130</td>
<td>130</td>
<td>130</td>
</tr>
<tr>
<td><strong>Product</strong></td>
<td>Pearson Correlation</td>
<td>.445**</td>
<td>.392**</td>
<td>.368**</td>
<td>1</td>
</tr>
<tr>
<td>Factors</td>
<td>Sig. (2-tailed)</td>
<td>.000</td>
<td>.000</td>
<td>.000</td>
<td></td>
</tr>
<tr>
<td></td>
<td>N</td>
<td>130</td>
<td>130</td>
<td>130</td>
<td>130</td>
</tr>
<tr>
<td><strong>Individual</strong></td>
<td>Pearson Correlation</td>
<td>.630</td>
<td>.293**</td>
<td>.454**</td>
<td>.626**</td>
</tr>
<tr>
<td>Factors</td>
<td>Sig. (2-tailed)</td>
<td>.000</td>
<td>.001</td>
<td>.000</td>
<td>.000</td>
</tr>
<tr>
<td></td>
<td>N</td>
<td>130</td>
<td>130</td>
<td>130</td>
<td>130</td>
</tr>
</tbody>
</table>

**. Correlation is significant at the 0.05 level (2tailed).

### Regression Analysis

H2. Buying behavior is determined by all the predictors.

Table is showing the model summary of regression analysis.

### Table 2: Model summary of Regression Analysis

<table>
<thead>
<tr>
<th>Model</th>
<th>R</th>
<th>R Square</th>
<th>Adjusted R Square</th>
<th>Std. Error of the Estimate</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>.454*</td>
<td>.206</td>
<td>.200</td>
<td>.76723</td>
</tr>
<tr>
<td>2</td>
<td>.485b</td>
<td>.235</td>
<td>.223</td>
<td>.75595</td>
</tr>
<tr>
<td>3</td>
<td>.524*</td>
<td>.274</td>
<td>.257</td>
<td>.73926</td>
</tr>
</tbody>
</table>

a. Predictors: (Constant), product factors  
b. Predictors: (Constant), product factors, individual factors  
c. Predictors: (Constant), product factors, individual factors, organizational factors

The below table is showing the Coefficients of Regression.

### Table 3: Coefficients (included variables)

<table>
<thead>
<tr>
<th>Model</th>
<th>Unstandardized Coefficients</th>
<th>Standardized Coefficients</th>
<th>T</th>
<th>Sig.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>B</td>
<td>Std. Error</td>
<td>Beta</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>(Constant)</td>
<td>2.970</td>
<td>.435</td>
<td></td>
</tr>
<tr>
<td></td>
<td>product factors</td>
<td>.506</td>
<td>.088</td>
<td>.454</td>
</tr>
<tr>
<td>2</td>
<td>(Constant)</td>
<td>2.158</td>
<td>.565</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Product Factors</td>
<td>.430</td>
<td>.093</td>
<td>.386</td>
</tr>
<tr>
<td></td>
<td>Individual Factors</td>
<td>.220</td>
<td>.100</td>
<td>.184</td>
</tr>
<tr>
<td>3</td>
<td>(Constant)</td>
<td>2.345</td>
<td>.557</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Product Factors</td>
<td>.225</td>
<td>.095</td>
<td>.454</td>
</tr>
<tr>
<td></td>
<td>Individual Factors</td>
<td>.313</td>
<td>.104</td>
<td>.262</td>
</tr>
<tr>
<td></td>
<td>Organizational Factors</td>
<td>.506</td>
<td>.086</td>
<td>.232</td>
</tr>
</tbody>
</table>

a. Dependent Variable: buying behavior
The above table 1 is showing a correlation between predictors (Organizational Factors, Situational Factors, Product Factors, and Individual Factors) and a criterion variable (Buying Behavior). The table shows that predictors i.e: Organizational Factors (0.000), Product Factors (0.000), and Individual Factors (0.000) are highly and positively correlated with criterion variables (Buying Behavior) at p-value less than 0.05. However, in the case of situational factors the correlation is positive but weak (r=0.293 with p-value 0.001). Hence it can be concluded that hypothesis#1 regarding correlation among research variables is fully substantiated and accepted. Table (2) is showing summary results of three regression models giving different combinations of factors predicting the buying behavior. Here in this table, all the models are significant with p-value less than 0.05, however, the third model is the best fit model that shows the highest impact (R^2=0.274) of predictors on buying behavior.

Table 3 is showing the Coefficient of Regression with included variables having p-value less than 0.05. It can be seen from the table 3 that the third model is having a greater number of variables (3) i.e. organizational factors at (b-value 0.506 & p-value 0.000), product factors at (b-value 0.225 & p-value 0.010), individual factors at (b-value 0.313 & p-value 0.003) that predict the buying behavior of individuals at P-value less than (0.05) in higher education institutions in Khyber Pakhtoonkhwa by bringing 28% change in buyers attitude. These findings are in line with the previous research i.e: (Barclay, 1991; Hutton, 1997; Mudambi, 2002; & Hunter et al.,2006), (Anderson and Narus, 1990; Gordon et al., 1993; Heide and Weiss, 1995; Blombäck, 2005; & Brassington and Pettit, 2006), and (Alba and Hutchinson, 2000; Wang, 2001; Baker, Hunt, and Scribner, 2002; Lin and Zhen, 2005; & Massini et al., 2005) respectively. Hence hypothesis #2 regarding the prediction of the buying behavior (criterion) by the predictors, is fully supported and substantiated, hence accepted.

CONCLUSION
Research is an effort to answer specific research questions through the procedure of hypothesis testing. Analysis of the study confirms that there is a positive and significant relationship among the research variables and further from regression results, it is concluded that three predictors (organizational, product, and individual factors) predict buying behavior of individuals in higher education institutions of Khyber Pakthoonkhwa. In light of study findings, marketers need to work on branding efforts by considering it as an important element of their marketing strategies and keep it as the central component of their overall corporate strategies. Marketers must understand institutional buyer buying behavior and should consider various factors while devising strategies for branding efforts in different business environments. This study has adopted measures of buying attitudes and applied them in institutional buying settings and seems to be versatile enough in capturing attitudes of buying officers/managers when they make or intending to decide on product selection. The institutional buyers should follow established procedures for reducing brand sensitivity and risk associated with the purchase. Institutional management should work for the solution of these issues to make institutional performance more credible. For quick and effective brand evaluation and quality determination, institutional buyers must have enough product-related information and an in-depth understanding of the different brands to make purchase decisions more productive.

LIMITATIONS OF STUDY
Invalidating buyer buying attitude in institutional buying practices, promising steps have been taken, even though this study is not without its limitations.

The questionnaire of the study didn’t ask respondents to react to a specific product category that could lead to new insights by reducing noise.

In this study, the hypothesized relationships could have been significantly altered by adding mediators or moderators.

SUGGESTIONS FOR FUTURE RESEARCH
The study model can be applied in different phases of the buying process, services settings, and at particular industries.

The focus of this study was to check the buyer’s perspective in institutional settings; whereas a seller’s perspective can be checked in business settings, services, etc.

Research opportunities can be created by studying tangible factors of a marketer’s offerings for increasing its effectiveness.

AUTHORS’ CONTRIBUTION
Dr.Amanullah and Imran Shah performed manuscript drafting and statistical analysis while
Dr. Adnan Khan and Najaf Ali worked on interpretations and arrangements of technical parts.

REFERENCES


