Example by StudyDriver

Source: https://studydriver.com/health-food-drinks/

Health Food Drinks Example

I. Problem definition

1.1 Background

India, the world's largest malt-based drinks market, accounts for 22% of the world's retail volume sales. These drinks are traditionally consumed as milk substitutes and marketed as a nutritious drink, mainly consumed by the old, the young and the sick. The Health food drinks category consists of white drinks and brown drinks. South and East India are large markets for these drinks, accounting for the largest proportion of all India sales. The total market is placed at about 90,000 ton and is estimated to be growing at about 4%. These Malt beverages, though, are still an urban phenomenon. White drinks account for almost two-thirds of the market. GSK Consumer Healthcare is the market leader in the white malt beverages category with a 60.7% overall market share. Heinz's Complan comes in second (in this segment, third overall) with a market share of 12-13%. Market leader GSK also owns other brands such as Boost, Maltova and Viva. Currently, brown drinks (which are cocoa-based) continue to grow at the expense of white drinks like Horlicks and Complan. The share of brown drinks has increased from about 32% to 35% over the last five years. Cadbury's Bournvita is the leader in the brown drink segment with a

market share of around 15%. Other significant players are Nestl©'s Milo and GCMMF's Nutramul.

1.2 Problem Statement

The project had been undertaken with an objective to understand the customer behaviour in the "Health Food Drink (HFD)" product category. The objective of the study also included identifying the determinant purchase factors, the customer segments and the sources of information they rely on. The existing positioning of prominent brands and the perceptions among different segments were also covered under the study. The brand loyalty and switching were also studied. The brand personality was also studied as a part of the project.

II. Literature review Nutrition In India

After 4 years of age, a child's energy needs per kilogram of bodyweight are decreasing but the actual amount of energy (calories) required increases, as the child gets older. From 5 years to adolescence, there is a period of slow but steady growth. Dietary intakes of some children may be less than recommended for iron, calcium, vitamins A and D and vitamin C, although in most cases -as long as the energy and protein intakes are adequate and a variety of foods, including fruit and vegetables, are eaten- deficiencies are unlikely. Regular meals and healthy snacks that include carbohydrate -rich foods, fruits and vegetables, dairy products, lean meats, fish, poultry, eggs, legumes and nuts should contribute to proper growth and development without supplying excessive energy to the diet. Children need to drink plenty of fluids, especially if it is hot or they are physically active. Water is obviously a good source of liquid and supplies fluid without calories. Variety is important in children's diets and other sources of fluid such as milk and milk drinks, fruit juices can also be chosen to provide needed fluids. In India, each State is practically equivalent to a country with its specific socio-economic level, different ethnic groups, food habits, health infrastructures and communication facilities. Thus, the nutritional status of the population shows significant variation between states since it results from a varying combination of factors. In the last 20 years, there has been an improvement in the nutritional status of the Indian population. This improvement results from not only changes in food intake but also socio-economic factors, increased availability of potable

water, lower morbidity and improvement of health facilities. In children under five years of age, the marked improvement in nutritional status is shown by the reduction of the prevalence of underweight from 63%, in the 1975-79 period to 53% in the 1988-90 period. The under-five mortality rate (U5MR), an important indicator of the socio-economic development, and health and nutritional status of a society, declined from 282% in 1962 to 115‰ in 1994. However, a multitude of infectious diseases such as respiratory and intestinal infections as well as malaria remain the main cause of death in children under five, with malnutrition being an aggravating factor. Measles, tetanus, typhoid and hepatitis are also frequent causes of death during infancy and childhood. In the last 20 years, there have been no significant changes in patterns of dietary intake. Cereals remain the staple food in India providing most of the energy intake. Since the seventies the consumption of foods like pulses, roots and tubers has fallen, while those of other foods like sugar, "jaggery" (unrefined brown sugar), fats and oils and green leafy vegetables have slightly increased. The average Indian diet remains largely deficient in green leafy vegetables, meat, and fish, milk and milk products. Moreover, it also remains deficient in some micronutrients such as vitamin A, iodine and iron. Adolescents who are undergoing rapid growth and development are one of the nutritionally vulnerable groups who have not received the attention they deserve. In under-nourished children rapid growth during adolescence may increase the severity of under-nutrition. Early marriage and pregnancy will perpetuate both maternal and child under-nutrition. At the other end of spectrum among the affluent segment of population, adolescent obesity is increasingly becoming a problem. Pre-school children constitute the most nutritionally vulnerable segment of the population and their nutritional status is considered to be a sensitive indicator of community health and nutrition. Over the last two decades there has been some improvement in energy intake and substantial reduction in moderate and severe under- nutrition in pre- school children India has enormous under-nutrition and over-nutrition problems Asia has the largest number of malnourished children in the world. The Double Burden of Malnutrition in Asia was inspired by the massive challenge that this situation currently poses for Asia. It describes the main driving forces behind the groundswell of under-nutrition, while shedding light on the emerging double burden of co-existing underweight and overweight, and the linkages between these two different forms of malnutrition. There are two types of nutritional problems - one is undernutrition and another is over-nutrition. Emphasis should be given not only to food but also to care and health, the reason being that even if children in the age group of 0-2 years are able to get food, they may have mothers who

do not have enough time to pay attention to their children. Similarly, if there is no health-guaranteeing environment, and children suffer from diarrhoeal diseases, no amount of food will help prevent malnutrition. Over-nutrition, on the other hand, means either too many calories or the wrong types of calories such as saturated fats or highly processed sugar that lead to obesity, vascular diseases, etc. Many developing countries have under-nutrition and those in Europe and North America have over- nutrition problems. There is this inbetween category with countries like India that still have an enormous amount of under-nutrition and significant over-nutrition problems. In India, for instance, around 50 per cent of its children under the age of five are undernourished or malnourished. But in urban areas, the over-nutrition problem is shooting up, thanks to the change in lifestyle and food habits. As a result, health systems are under huge stress. When there is malnutrition, there is a higher level of lower birth rate. One in three babies born in India weigh significantly low because their mothers are undernourished. Some low-weight babies die and some survive and those who survive adapt to malnutrition and scarcity. That is, the biological adaptation is programmed to maximize every calorie the body gets. This adaptation that helped a malnourished baby survive suddenly turns out to be a mal-adaptation when the baby becomes an adult. The adult, who was malnourished in the past, gains extra weight even when he takes only normal amount of food because of the biological adaptation.

Brand Loyalty

Selling to brand loyal[1] customers is far less costly than converting new customers (Reichheld 1996, Rosenberg and Czepiel 1983)[i]. In addition, brand loyalty provides firms with tremendous competitive weapons. Brand loyal consumers are less price sensitive (Krishnamurthi and Raj 1991)[ii]. A strong consumer franchise gives manufacturers leverage with retailers (Aaker 1991) 1. And, loyalty reduces the sensitivity of consumers to marketplace offerings, which gives the firm time to respond to competitive moves (Aaker 1991) 1. In general, brand loyalty is a reflection of brand equity, which for many businesses is the largest single asset. Perhaps the most cited conceptual definition of brand loyalty comes from Jacoby and Chestnut (1978, p. 80)[iii]: "The biased, behavioral response, expressed over time, by some decision-making unit, with respect to one or more alternative brands out of a set of such brands, and is a function of psychological (decision-making, evaluative) processes." Consistent with this definition are two broad categories of operational definitions. The first stresses the "behavioral response, expressed over time"—typically a series of purchases. As Day (1979) observed[iv], however, the major limitation of behavioral measures is the failure to identify motive and the resulting confusion between brand loyalty and other forms of repeat buying. The major alternative operational definition is based on consumer attitudes, preferences, and purchase intentions. These measures stress the cognitive "bias," and the "psychological (decision-making evaluative) processes" underlying loyalty.

Health Related Expenses

KSA TECHNOPAK has conceived an innovative product called Health Outlook 2003, which provides strategic insights to consumer shopping and buying behavior. Apart from the consumer insights, complete health profiling is also done for providing derived disease incidence and prevalence in the country. This Pan Indian research model provides large research depths by covering about 10,000 households across cities like Chandigarh, Delhi, Jaipur, Lucknow, Ludhiana, Calcutta, Patna, Bangalore, Chennai, Cochin, Hyderabad, Madurai, Ahmedabad, Indore, Mumbai, Nagpur, Pune and Surat. The rich respondent profile includes SEC A, B and C giving a good coverage for demographic types. Health Outlook shows that health enjoys about 9.4 per cent share of the wallet of Indian consumer and is on the rise for the last three years. This spend includes health supplements, health drinks, doctors and consultants fees, medicines, medical insurance, regular check ups etc. About 91 per cent of this was out-of-pocket expense and only 9 per cent came from employers and insurance. Analysis of the consumer's drug purchase behaviour shows that 59 per cent use old prescriptions and 29 per cent use over-the-counter drugs, meaning 88 cent of the consumers indulged in self-medication. Consumer attitudes to health drinks are mainly influenced by quality attributes. Ethical factors are important in some cases, but they may be overstated. The relationships between consumers' awareness of health drink, price and perceived quality of food were investigated by tests involving series of consumer panels and sensory evaluation. Sensory responses were also matched to instrumental analysis data. Results indicated that overall there was no relation between panelists views about health drinks and their sensory perceptions. Eighty percent of the panelists felt that organic products were too expensive, but would buy them if they were cheaper. However the study showed that most of the

people would not be likely to change their preference once they had made a product choice based upon sensory attributes. This has important implications, indicating that not only price, but also sensory quality of health drink must be considered in order to maintain repeated purchases by most consumers. It is widely accepted that consumer acceptance of drinks is mainly determined by their sensory perception, while choice is strongly influenced by the perceived value for money. Ethical factors are important in some cases, but they may be overstated. Although comparisons between organic and conventional drinks have been reported for a range of attributes, measures of the quality of health drinks as perceived by consumers using objective sensory evaluation methods, or the relevance of any preconceptions in perception have not been studied. This study aimed to investigate the relationship of objective quality measurements including sensory attributes and consumer perception of organically and conventionally produced health drink products. About two thirds of the consumers that participated in the survey believed that health drink is good for the environment, and 55% thought that it is healthier. However there was some confusion relating to the use of pesticides and chemicals in that. Few consumers' distinguished health drinks by appearance or taste. Buyers of health drinks were more likely to indicate that the appearance and taste are better, but environmental protection was still the dominant perceived benefit. Buyers who believe that health drink is better also think that it is expensive (p<0.05). In this study, 80% of the consumers perceived health drinks to be too expensive (49% were non-buyers and 31% buyers)

II. Approach to the problem

Objective or theoretical framework

The objective of this research is to identify the factors that influence a person into making a decision to buy a certain brand of malt-based health drink. As mentioned in the Literature Review, according to industry analysts, this category has grown only on promotions and for now, except for promotions, nothing seems to be working. Therefore, ideally, this research should be able to bring to the fore, certain other factors that could lead to a growth of this segment. At the very least, the research should corroborate the existing assumptions regarding the influencing factors. It should be in a position to verify that the steps various players are taking to stimulate

volumes are in the right direction, and would eventually lead to an increase in market share.

Research Questions

I. What are the different "Customer Segments" depending upon the preferences? II. What is the perception of people towards the leading brands of Health Food Drinks? III. What are different factors that influence the customer when He/She buys a Health Food Drink? IV. Who are the major Influencers in the purchase decision of Health Food Drinks?

Identification of information needed

After fixing the objective, we started an extensive reading on the topic. The very first question we needed to clear in our mind was: "What does Health Food Drinks mean?" Therefore we narrowed down to the malt-based Health drinks like Bournvita and Horlicks. The subsequent readings helped us understand the consumer patterns and perceived needs of the consumers from a health drink. Depending upon that, we listed down several factors that can influence a consumer in buying or not buying a health drink. The study on "Consumer Behaviour" throws light on the prevalent consumer purchase influencers like Price, Nourishment, Palatability, and Packaging which are included in the purchase influence factors in the questionnaire The Literature on "Indian Nourishment" shows that the Indian consumer is getting more and more health conscious and thus there is huge potential for the health drinks in the Indian market. Nowadays there can be a number of sources that influence a family in buying a Health Drink. These sources can be promotions, Doctor's Advice, Peer Group talks (word of mouth) and choice of the children themselves. Since the malt-based health-drink segment is broadly divided into 2 categories brown (cocoa-based) and white, therefore it was decided to study the leading brands available in both these categories. We visited retail outlets in different parts of South Delhi to determine the most popular brands. We have assumed that brands that are most visible and widely available are the most popular, as retailers would stock only those brands that invoke maximum sales All identified factors were discussed and screened by the research team. In this process, factors that did not convey much, did not sound authentic or did not differ much

from other factors were eliminated.

III. Research Design

The methodology followed for analyzing the consumer behavior of health food drink customers.

3.1 Preliminary Investigation

This phase involved preliminary investigation of the various factors which could possibly affect the consumer's perception about the various brands and in turn influence the purchase decisions of the consumer. We primarily used three methods to identify the various factors. The Secondary data gathered was analyzed to understand the current scenario of the Health drinks segment. The analysis of the secondary data also helped us find different attributes which affect the health drinks segment.

3.2 Collection of Quantitative data

Measurement and Scaling Procedures: Non-Comparative Rating scale is used in which respondents evaluate only one object at a time, and for this reason noncomparative scales are often referred to as monadic scales. Noncomparative techniques consist of continuous and itemized rating scales. We have used continuous rating scale in order to rate the choices for purchase considerations and the sources of purchase decisions. Questionnaire Design: This phase involved the design of the questionnaire on the basis of the potential factors identified as influencing the customer behavior. Research problems were listed and then the information needed was identified. The questions were then prepared in order to fulfill the information requirements as identified earlier. Survey: Different Survey methods were used for collection of data. The principle method used was Personal Interviewing of the respondents. In-Home interviews were conducted by us at various locations in Delhi. We also did Mall Intercept at popular markets like Sarojini Nagar and Malviya Nagar. Due to the shortage of time, we conducted a few telephonic interviews to maintain diversity in data.

3.3 Sampling Process

Target Population: The target population is the collection of elements or objects that process the information sought by the researcher and about which inferences are to be made. Our target population involves the users, deciders and buyers of health food drinks. The users include the old and the young population. The deciders and the buyers mostly include the house wives who buy the product from the market. Sample Size: It denotes the number of elements to be included in the study. Due to time constraints the sample size chosen is very small. Sampling Technique: A mixture of quota and stratified method was used for sampling, with care being taken to get responses from customers of different age groups and different family sizes. iv. Fieldwork The survey was conducted keeping in mind the users and deciders of the health drinks. The survey was conducted in the Paschim Vihar and Ranibagh Areas of Delhi. We made several trips to the local market (Sarojini Nagar and Malviya Nagar) and the nearby households to gather information from relevant people.

V. Data Interpretation and Analysis

5.1 Data Analysis Plan

This chapter shows how the information needed to answer the three key research questions have been extracted via the questionnaire. Q1 explicitly asked the respondents if a health drink is used in the family or by them. The questionnaire was not administered to the respondents that answered NO to this question. Such respondents have not been included in the sample size of 60 that has been mentioned. Q2 to Q6 of the questionnaire are used to get the general details about the respondent (age, educational qualification, annual income, family size and number of children in the family. Q4 explicitly asked the respondents about the size of the family and Q6 asked about the number of children in the respondent's family. Q7 explicitly asks the brand preference of the respondent about the health drink. Q8 asks the respondents to rate the importance of the following purchase considerations on a scale of 1(Very unimportant) to 5 (Very Important): a) Nourishment b) Colour c) Palatability d) Economy e) Shelf-presence f) Packaging g) Brand Image h) Promotions These attributes were decided after a

thorough secondary data analysis. However some of these attributes might have similar effect on the consumer preference. Therefore we conduct a factor analysis to find out the factors to which one or more of the above variables belong. Q9 asks the respondents to rate the Sources of Information influencing the Purchase Decision. The following sources were considered: a) Advertisement b) Children c) Doctor d) Family e) Past experience f) Retailer g) Word of mouth The respondents were asked to rank the factors in order of importance. Q10 ask the respondents to score each of the brands on the various product attributes on a scale of 1 - 5. Five major selling brands were tested on the various product attributes mentioned. The brands included in the test were: a) Boost b) Bournvita c) Complan d) Horlicks e) Milo Q11 and Q12 are used to determine the brand loyalty of the respondent towards the health drink, thus asking the switching pattern of the users. O13 in the Questionnaire attempts to find the Brand Personality by asking customers the perceived traits of each of the leading brands of health drinks available in the market today. It is very important to realize that these are not the attributes that the drink claims to possess, via its advertisements and other promotional activities. For e.g. Boost in it's campaign claims that "Boost is the secret of my energy", but rather the attributes the customer feels that the drink possesses. Therefore, if respondents identify spiritedness with Boost it would imply that Boost is successful in its marketing strategy. The responses to this question would also be important to other players in this segment, as they would realize that their promotions are not being effective and hence this would encourage them to redirect their marketing efforts. Apart from spiritedness, the other important traits have been identified as Modesty, Honesty, Cheerfulness, Boldness, Spiritedness, Reliability, Sophistication, Toughness, and Ruggedness. 5.2 Methodology Questionnaire Checking/Editing: The questionnaire is checked for completion and interviewing quality. Editing is the review of the questionnaire with the objective of increasing accuracy and precision. Collation of Data: The data is collated in the excel sheet and prepared for statistical analysis. An SPSS view of the data was also taken for further analysis. Choice of Statistical Analysis Techniques: T-statistic: A t-test was conducted on the results of the survey in order to compare the means of the ranks for the factors or sources of information to find out the most important influencing the purchasing decision. T-test was also conducted on the various product attributes for different brands. Anova: It is carried to study the variance of the factors or product attributes that influence the most among the various demographic groups by conducting the one way Anova test on the scores of these 8 factors. Factor Analysis: The various variables that denote the product attributes that determine the

purchasing decision can be actually factored using factor analysis. This factoring of the variables helps in easily studying the consumer behaviour. Cluster Analysis: The set of respondents was segmented on the basis of the demographic information namely 'age-group', 'income-group', 'education', 'family size' etc using cluster analysis so as to identify the distinct clusters depending upon these demographic factors. Multi Dimensional Scaling: This analysis was performed on the overall samples as well as on the 2 segments individually so as to gauge the difference in their perceptions. The selection process depends on the fact that it is conducted on the aggregate level data, i.e. that on the two clusters formed after cluster analysis. This is due to the fact that all market strategies are typically formulated at the segment or aggregate level. 5.3 Analysis and Interpretation Sources of Information influencing the Purchase Decision h) Advertisement i) Children j) Doctor k) Family I) Past experience m) Retailer n) Word of mouth The respondents were asked to rank the factors in order of importance. A t-test was conducted on the results of the survey in order to compare the means of the ranks for the factors. The results of the test are as shown in the Exhibit 1. We can say from the results that there is a significant difference between the ranks of the factors with a 95% confidence. The two most important factors that emerge out of the tests overall are the "Family doctor" and the influence of the "Family". This finding is an important implication for product placement. We can say that the health food drinks should appeal to the complete family rather than only a particular age group. Doctors can also be an important influencer or opinion leader and hence should be targeted in the product promotions. Some products have been promoting their products using comparative advertisements including testifications by the doctors. A second test can be conducted in the same manner taking only the cases where the people are having kids in the family. The results are shown in the Exhibit 2. We observe that the two most important factors differ from the first scenario. The two most important factors that emerge out of the test are "Family Doctor" and "Advertisement". Thus it can be concluded that advertisements have an important influence on the families having kids or in turn the kids. This can be easily observed from the large number of advertisements directed towards the well being of kids. Product Attributes Influencing the Purchase Decision The following product attributes were identified as influencing the purchase decisions of the customers: a) Nourishment b) Colour c) Palatability d) Economy e) Shelf-presence f) Packaging g) Brand Image h) Promotions The respondents were asked to score the importance of the factors on a scale of 1 to 5, with 5 being the most important. A t-test was conducted on the scores of the factors in order to find the most important factors. The t-

test shows there is a significant difference between the scores of the various factors with a 95% confidence. The results of the test are shown in Exhibit 3. We observe from the results that the two most important product attributes in making a purchase decision are the "Palatability" and the "Nourishment" perception in the minds of the customers. These factors turn out to be the same irrespective of whether there are children in the family or not. We then study the variance of these factors among various demographic groups by conducting the one way Anova test on the scores of these 8 factors. We studied the variance of the mean scores of these attributes among the various groups differentiated by the following factors:- a) Income b) Education c) Age d) Family size The results of the Anova tests which were conducted on the data are as shown in the Exhibits 4-7. We observe that there are no significant differences in the scores of the product attributes in different groups as classified by "Income", "Education" and "Family size" within a 95% confidence interval. However there is a significant different on the "Nourishment" and "Economy" product attributes of health food drinks. As is observed from the mean scores, the "Nourishment" aspect becomes particularly important for people above the age of 60. It is also important for people who are young in age i.e. less than 20. However it does not seem to be very significant for people in the age group 33-45. The factor analysis of these attributes is done in the following section. Factor Analysis of Purchase Considerations The factor analysis of the 8 product attributes yields the following 3 factors: · Factor I: Promotion, Shelf-Presence, Packaging & Economy * Factor II: Palatability, Brand * Factor III: Nourishment, Colour (For the output of factor analysis, refer to exhibit 8.) As factor I encompass the accessibility and affordability of the product, it can be termed as 'Purchase Feasibility'. As factor II encompass the palatability and brand value of the product, it can be termed as 'Likeability'. As factor III encompass the nutritional value and colour, an indicator of quality, of the product, it can be termed as 'Utility'. Customer Segmentation The set of respondents was segmented on the basis of the demographic information namely 'age-group', 'income-group', 'education', 'family size' etc. The cluster analysis on these demographic variables yields the following 2 clusters: * Cluster 1: The members are almost uniformly distributed across all age segments except under-20 in which no member lies. However, the family size is large than 3 for all the members and a majority of members having 1-2 child in the family. The cluster size is 27 respondents. * Cluster 2: All the members in this cluster are less than the age of 32 yrs, with the majority being less than 20 yrs. Around 90% of the members were either single or couple thus suggesting that the members were either students, or bachelor/newly-married young working professionals. The

cluster size is 30 respondents. * As the consumption in cluster 2 would be lower than the large families comprising kids & older persons because of less health concerns and preference for alternative beverages, the price sensitivity of cluster 2 would be low while cluster 1 is concerned about economy. (For output of cluster analysis, refer to Exhibit 9). Thus, cluster 1 could be termed as 'value-seekers' while cluster 2 could be termed as 'quality-seekers'. Different Brands on Product Attributes Five major selling brands were tested on the various product attributes mentioned. The brands included in the test were: f) Boost g) Bournvita h) Complan i) Horlicks j) Milo The respondents were asked to score each of the brands on the various product attributes on a scale of 1 - 5. T-test was conducted on the various product attributes for different brands. The results have been shown in Exhibit 11. The number of respondents who were consuming the various brands is as shown in the pie chart. As we can observe from the graph, Bournvita is found to be the leading brand closely followed by Horlicks, while the other brands do not have a large taking from our survey. The results of the various brands on different attributes are as follows: a) Nourishment: Horlicks scores well above all the brands as far as the nourishment attribute of the product is concerned. The second brand surprisingly turns out to be Complan above Bournvita although there are not many takers for the brand in our survey. b) Colour: The two brands with highest main scores are again Bournvita and Horlicks. This means that the dark brown shining colour of Bournvita is the most liked. c) Palatability: Bournvita scores much higher than others going with the traditions of Cadburys tradition of taste. The second brand is Horlicks. d) Economy: Bournvita scores the highest on the economy aspect closely followed by Horlicks. This means that the price being offered for the product is perceived as being competitive in the health food drink market. e) Shelf presence: The mean score of this aspect of Horlicks is the best followed by Bournvita. This has to do with the distribution of the brands which appears to be the best for Horlicks f) Packaging: Horlicks and Bournvita score again above the rest of them on the packaging aspect perception. This may be due to the range of SKU's available and also with the different types of packaging containers like p g) Brand Image: The mean score for brand image is the highest for Bournvita followed by Horlicks. This means the advertising and image associations with Bournvita are very strong. h) Promotional schemes: Bournvita scores the highest on this aspect. The other closely following brand Horlicks seems to be lagging on this aspect. Boost on the other hand scores high on this attribute. Thus we can well say that the market leaders are the brands who are scoring high on all of the above attributes. Though the above analysis reveals the relative performance of the brands on different

parameters, 'attribute-based Multi Dimensional Scaling (MDS)' would indicate the overall positioning of these brands. These results are discussed hereunder. Attribute-Based MDS The tool used for this analysis is MDSX. The analysis was performed on the overall samples as well as on the 2 segments individually so as to gauge the difference in their perceptions. The MDS on overall sample suggests that Brand Positioning Attributes Horlicks Brand, Nourishment, Shelf-presence Bournvita, Complan Palatability, Shelf-presence Milo, Boost Promotion, Economy, Colour While the analysis on 'value-seekers' Cluster 1 suggests that Concerns Brand Positioning Attributes Strength Economy, Value-for-money Complan, Horlicks Brand, Shelf-presence, Packaging, Nourishment Weak Bournvita Palatability, Brand Weak Milo, Boost Economy, Colour, Promotion Strong

The above table summarizes the existing positioning in minds of 'value-seekers' and also indicates the relative strength of brands on the basis of match between the segment concerns and the positioning attributes.

While the analysis on 'quality-seekers' Cluster 2 suggests that Concerns Brand Positioning Attributes Strength Quality, Little concern for economy Horlicks Brand, Nourishment Somewhat Strong Bournvita Shelf-presence, Palatability Somewhat Strong Boost Colour Weak Milo, Complan Promotion Weak The above table summarizes the existing positioning in minds of 'quality-seekers' and also indicates the relative strength of brands on the basis of match between the segment concerns and the positioning attributes. None of the brands is perceived to be better on 'economy' and 'packaging'.

Brand Loyalty Among Customers

The respondents in the survey were asked whether they switched brands often or stick to one brand. We observe from the pie chart given that a vast majority of people never switch brands of the health food drink. Only about 20 - 25 % people change brands sometimes. Another question which was asked was that of the action when a retailer does not have a brand that the consumer wants. This again indicates that only about 20 - 25% of the customers actually buy another brand when the desired brand is not present in the shop. The result of the survey is as shown in the following pie chart. We next conduct a one-way Anova test to test the brand loyalty among the

customers of different brands. It is observed that there is no significant difference in the switching behaviour or the action when the brand is not available. These are the same across all the brands.

Brand Personality

The attribute-based MDS of the trait-brand matrix suggests that * 'Horlicks' & 'Bournvita' are perceived to be 'Modest', 'Honest', Reliable' & 'Cheerful'. Thus, these brands can be personified as a 'reliable' and 'helping' friend. * 'Complan' is perceived to 'Sophisticated' thus it can be personified as a charming, suave and chivalrous gentleman. * 'Milo' & 'Boost' are perceived to be 'Bold' & 'Spirited'. Thus, these brands can be personified as funloving, adventurous and daring youth. * None of the brands is perceived to be 'tough' & 'rugged' as is desired for a health product. (For the perceptual map of traits-brands, refer to Exhibit 16).

vi. Results Customer Segmentation Cluster Analysis

q Cluster 1: Value-Seekers Family Size: >=3 Size of cluster: 27 respondents q Cluster 2: Quality-Seekers Family Size: <=2 Size of cluster: 30 respondents Singles, young newly married couple Product Attributes Influencing Purchase Decision

Factor Analysis

Factor Analysis yields 3 factors q Purchase Feasibility (Promotion, Shelf-Presence, Packaging & Economy) q Likeability (Palatability, Brand) q Utility (Nourishment, Colour) Two most important factors came out to be: q Palatability q Nourishment

Purchase Influence Factors

Two most important factors for families: q Doctor q Family Influence Two most important factors for families with kids: q Doctor q Advertisements

Brand Loyalty

q Customers more often stick to one brand q No significant difference in scores for the brands analyzed

Vil. Constraints/Limitations

Since this Project was intended to initiate us to the methodologies and techniques of Business Research Methods, therefore there are a number of constraints in terms of Manpower and Resources to conduct a large-scale survey. The scope of the project was limited to learning. There have been a number of limitations because of which the survey may not be indicative of the views of the target population. A few of these have been mentioned below. § The Sample size used for the research is less. § The Sample consisted of primarily students. § The Target Area was limited to College and the nearby markets. § Consultation with Experts would have largely improved quality of the Research. § The Questionnaire was not extensive and more issues could have been addressed. § The responses obtained might be inaccurate or biased, inadvertently or deliberately. § The sample of the respondents chosen for the study might not be representative. § Analysis of the proposed aspects might differ depending on the tools and techniques used.

Exhibits

Exhibit 1

T-test on the influencing factors

One-Sample Statistics

N Mean Std. Deviation Std. Error Mean Advt 57 3.63 1.665 .221 Children 57 4.18 2.197 .291 Doctor 57 3.33 1.816 .241 Family 57 3.26 1.675 .222 Experien 57 3.42 2.044 .271 Dealer 57 5.70 1.511 .200 wrd_mth 57 4.04 1.832 .243

Exhibit 2

T-test on the influencing factors in families with kids

One-Sample Statistics

N Mean Std. Deviation Std. Error Mean Advt 28 3.39 1.595 .301 Children 28 3.54 2.285 .432 Doctor 28 3.00 1.610 .304 Family 28 3.64 1.393 .263 Experien 28 3.68 2.109 .399 Dealer 28 5.93 1.783 .337 wrd_mth 28 3.96 1.527 .289

Exhibit 3

T-test on importance of product attributes

One-Sample Statistics

N Mean Std. Deviation Std. Error Mean Nourish 57 4.21 1.065 .141 Colour 57 2.56 .945 .125 Plty 57 4.56 .682 .090 Economy 57 3.02 1.009 .134 Shelf 57 3.23 .964 .128 Pkg 57 2.89 .939 .124 Brand 57 3.96 .981 .130 Promotion 57 2.95 1.141 .151

Exhibit 4

One way Anova of product attributes vs. different income groups ANOVA Sum of Squares df Mean Square F Sig. Nourish Between Groups 3.158 3 1.053 .925 .435 Within Groups 60.316 53 1.138 Total 63.474 56 Colour Between Groups 2.407 3 .802 .893 .451 Within Groups 47.629 53 .899 Total 50.035 56 Plty Between Groups 1.826 3 .609 1.333 .274 Within Groups 24.209 53 .457 Total 26.035 56 Economy Between Groups 2.247 3 .749 .725 .541 Within Groups 54.736 53 1.033 Total 56.982 56 Shelf Between Groups 1.371 3 .457 .478 .699 Within Groups 50.664 53 .956 Total 52.035 56 Pkg Between Groups 3.997 3 1.332 1.556 .211 Within Groups 45.371 53 .856 Total 49.368 56 Brand Between Groups 5.058 3 1.686 1.829 .153 Within Groups 48.871 53 .922 Total 53.930 56 Promotion

Exhibit 5

One way Anova of product attributes vs different education groups ANOVA Sum of Squares df Mean Square F Sig. Nourish Between Groups 7.798 5 1.560 1.429 .230 Within Groups 55.675 51 1.092 Total 63.474 56 Colour Between Groups 2.647 5 .529 .570 .723 Within Groups 47.388 51 .929 Total 50.035 56 Plty Between Groups 3.428 5 .686 1.547 .192 Within Groups 22.607 51 .443 Total 26.035 56 Economy Between Groups 5.330 5 1.066 1.052 .398 Within Groups 51.653 51 1.013 Total 56.982 56 Shelf Between Groups 7.703 5 1.541 1.772 .135 Within Groups 44.332 51 .869 Total 52.035 56 Pkg Between Groups 3.625 5 .725 .808 .549 Within Groups 45.744 51 .897 Total 49.368 56 Brand Between Groups 2.186 5 .437 .431 .825 Within Groups 51.744 51 1.015 Total 53.930 56 Promotion Between Groups 9.251 5 1.850 1.484 .211 Within Groups 63.591 51 1.247 Total 72.842 56

Exhibit 6

One way Anova of product attributes vs different age groups ANOVA Sum of Squares df Mean Square F Sig. Nourish Between Groups 29.336 4 7.334 11.172 .000 Within Groups 34.138 52 .656 Total 63.474 56 Colour Between Groups 6.185 4 1.546 1.834 .136 Within Groups 43.850 52 .843 Total 50.035 56 Plty Between Groups .928 4 .232 .480 .750 Within Groups 25.107 52 .483 Total 26.035 56 Economy Between Groups 12.452 4 3.113 3.635 .011 Within Groups 44.530 52 .856 Total 56.982 56 Shelf Between Groups .838 4 .210 .213 .930 Within Groups 51.197 52 .985 Total 52.035 56 Pkg Between Groups 3.625 4 .906 1.030 .401 Within Groups 45.744 52 .880 Total 49.368 56 Brand Between Groups 4.031 4 1.008 1.050 .391 Within Groups 49.899 52 .960 Total 53.930 56 Promotion Between Groups 6.659 4 1.665 1.308 .279 Within Groups 66.183 52 1.273 Total 72.842 56

Exhibit 7

One way Anova of product attributes vs different family size groups ANOVA Sum of Squares df Mean Square F Sig. Nourish Between Groups 8.400 3 2.800 2.695 .055 Within Groups 55.073 53 1.039 Total 63.474 56 Colour Between Groups 2.709 3 .903 1.011 .395 Within Groups 47.326 53 .893 Total 50.035 56 Plty Between Groups .866 3 .289 .608 .613 Within Groups 25.169 53 .475 Total 26.035 56 Economy Between Groups 6.897 3 2.299 2.433 .075 Within Groups 50.085 53 .945 Total 56.982 56 Shelf Between Groups 3.485 3 1.162 1.268 .295 Within Groups 48.550 53 .916 Total 52.035 56 Pkg Between Groups 2.823 3 .941 1.072 .369 Within Groups 46.545 53 .878 Total 49.368 56 Brand Between Groups 1.027 3 .342 .343 .794 Within Groups 52.903 53 .998 Total 53.930 56 Promotion Between Groups 7.117 3 2.372 1.913 .139 Within Groups 65.726 53 1.240 Total 72.842 56

Exhibit 8:

Factor Analysis of Product Attributes/Considerations KMO and Bartlett's Test Kaiser-Meyer-Olkin Measure of Sampling Adequacy. .592 Bartlett's Test of Sphericity Approx. Chi-Square 94.019 df 28 Sig. .000 Rotated Component Matrix(a) Component 1 2 3 PROMOTIO .741 .017 -.178 SHELF .707 -.065 .286 PKG .686 .392 -.223 ECONOMY .586 .170 .512 PLTY -.125 .876 .184 BRAND .233 .862 -.047 NOURISH .135 .147 .820 COLOUR .179 .060 .703 Extraction Method: Principal Component Analysis. Rotation Method: Equamax with Kaiser Normalization. A Rotation converged in 5 iterations. Source: SPSS output

Exhibit 9:

Cluster Analysis on Demographic Variables Final Cluster Centers Cluster 1 2 AGE 3 1 FMLY_SZ 3 2 NUM_CHLD 2 1 INCOME 2 2 EDUCN 4 4 Number of Cases in each Cluster Cluster 1 27.000 2 30.000 Valid 57.000 Missing .000

Exhibit 10

T-test of different brands on different product attributes

One-Sample Statistics

N Mean Std. Deviation Std. Error Mean nrsh_bst 57 3.39 .590 .078 nrsh_brn 57 3.54 .734 .097 nrsh_cmp 57 3.68

.659 .087 nrsh_hor 57 4.30 .865 .115 nrsh_mil 57 3.35 .582 .077

One-Sample Statistics

N Mean Std. Deviation Std. Error Mean col_bst 57 3.44 .866 .115 col_brn 57 3.58 .755 .100 col_cmp 57 3.28 .620 .082 col_hor 57 3.46 .847 .112 col_mil 57 3.28 .648 .086

One-Sample Statistics

N Mean Std. Deviation Std. Error Mean plty_bst 57 3.23 .846 .112 plty_brn 57 4.09 .662 .088 plty_cmp 57 3.61 .774 .102 plty_hor 57 3.82 1.071 .142 plty_mil 57 3.44 .802 .106

One-Sample Statistics

N Mean Std. Deviation Std. Error Mean eco_bst 57 3.33 .636 .084 eco_brn 57 3.53 .710 .094 eco_cmp 57 3.28 .675 .089 eco_hor 57 3.40 .979 .130 eco_mil 57 3.40 .563 .075

One-Sample Statistics

N Mean Std. Deviation Std. Error Mean shlf_bst 57 3.37 .975 .129 shlf_brn 57 4.02 .767 .102 shlf_cmp 57 3.93 .979 .130 shlf_hor 57 4.14 .934 .124 shlf_mil 57 3.49 .759 .101

One-Sample Statistics

N Mean Std. Deviation Std. Error Mean pkg_bst 57 3.46 .781 .103 pkg_brn 57 3.82 .826 .109 pkg_cmp 57 3.61 .726 .096 pkg_hor 57 3.82 .782 .104 pkg_mil 57 3.46 .683 .090

One-Sample Statistics

N Mean Std. Deviation Std. Error Mean brnd_bst 57 3.54 .847 .112 brnd_brn 57 4.05 .811 .107 brnd_cmp 57 3.70 .801 .106 brnd_hor 57 4.04 .906 .120 brnd_mil 57 3.40 .842 .112

One-Sample Statistics

N Mean Std. Deviation Std. Error Mean prom_bst 57 3.65 .834 .111 prom_brn 57 3.77 .945 .125 prom_cmp 57 3.53 .847 .112 prom_hor 57 2.96 .944 .125 prom_mil 57 3.49 .869 .115 Exhibit 11 Overall Perceptual Map Exhibit 12 Value-Seekers Perceptual Map Exhibit 13 Quality-Seekers Perceptual Map

Exhibit 14

Anova test for checking brand loyalty of different brands ANOVA Sum of Squares df Mean Square F Sig. Action Between Groups .750 4 .188 .236 .917 Within Groups 41.285 52 .794 Total 42.035 56 Switch Between Groups .139 4 .035 .093 .984 Within Groups 19.370 52 .373 Total 19.509 56

Exhibit 15

Brand Personality Map Questionnaire Hi. We are students of IIFT. You are invited to participate in a survey to find out consumer preferences regarding various malt based health drinks available in the market today. It will take approximately 3 minutes to fill this questionnaire. Your participation in this study is voluntary. There are no foreseeable risks associated with this project. However, if you feel uncomfortable answering any questions, you may withdraw from the survey at any point in time. It is very important for us to learn your opinions. Your survey responses will be coded, remain strictly confidential and be reported only in the aggregate. Thank you very much for your time and support. You may start with the survey now.

1) Is Health Drink consumed in your family?

a) Yes b) No

2) What is your age?

a) < 20 years b) 20-32 years c) 33-45 years d) 46-60 years e) > 60 years

3) What is your education level?

a) Matric b) Sr. Secondary c) Graduate d) Post Graduate e) Professional Degree f) Others

4) What is the size of the family?

a) 1 b) 2 c) 3- 4 d) >4

5) What is the annual average income of the family?

a) <Rs. 200,000 b) Rs. 200,000 - 400,000 c) Rs. 400,000 - 600,000 d) >Rs. 600,000

6) What is the number of children in your family?

a) 0 b) 1-2 c) >2

7) Which health food drink do you drink?

a) Boost b) Bournvita c) Complan d) Horlicks e) Milo

8) Please rate the importance of the following purchase considerations on a scale of 1(Very **unimportant) to 5 (Very Important)?**

i) Nourishment j) Colour k) Palatability l) Economy m) Shelf-presence n) Packaging o) Brand Image p) Promotions

9) Please rate the following sources of information useful for purchase decision on a scale of 1 to 7?

a) Advertisement b) Children c) Doctor d) Family e) Past experience f) Retailer g) Word of mouth

10) Please rate the following brands on the given attributes on a scale of 1(very poor) to 5(excellent).

Boost Bournvita Complan Horlicks Milo Nourishment Colour Colour Palatability Palatability Palatability Palatability Promotions Brand Image

11) How often do you switch health food drink?

a) Never b) Sometimes c) Frequently

12) What do you do when your desired brand of health food drink is not available?

a) Go to another place to buy the product b) Purchase another brand of health food drink c) Ask the retailer to buy it for you

13) Rate the following brands on the traits that they resemble on a scale of 1(No resemblance) to **5 (High Resemblance)**

Boost Bournvita Complan Horlicks Milo Modesty Honesty Cheerfulness Boldness Spiritedness Reliability Sophistication Toughness Ruggedness

IX References

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