# 'GAUGING THE RETAIL FORMAT CHOICE PARAMETERS FOR FOOD \& GROCERY SEGMENT IN THE CITY OF AHMEDABAD.' 

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ABSTRACT Indian retail market is booming in India. Various factors are responsible for retail boom in the country. With the rising cost of operation and cross shopping behavior of customers in all the consumer product segments, identifying the correct retail mix has gained importance. The paper examines and concludes the mall capital of India and selected demographic factor analysis. The study is based on primary data and it has been analyzed through ANOVA \& factor analysis.

KEYWORDS : Organized Retail format, Demographic variable, Factor analysis, ANOVA

## Introduction

${ }^{(1)}$ The Indian retail industry is one of the fastest growing in the world. Retail industry in India is expected to grow to US\$ 1.3 trillion by 2020, registering a Compound Annual Growth Rate (CAGR) of 16.7 per cent over 2015-20. By 2018, the Indian retail sector is likely to grow at a CAGR of 13 per cent to reach US\$ 950 billion. Organized retail is expected to account for 20 per cent by 2020.India is the fifth largest preferred retail destination globally. The country is among the highest in the world in terms of per capita retail store availability. India's retail sector is experiencing exponential growth, with retail development taking place not just in major cities and metros, but also in Tier-II and Tier-III cities. Healthy economic growth, changing demographic profile, increasing disposable incomes, urbanization, changing consumer tastes and preferences are the other factors driving growth in the organized retail market in India. The Government of India has introduced reforms to attract Foreign Direct Investment (FDI) in retail industry. The government has approved 51 per cent FDI in multi-brand retail and increased FDI limit to 100 per cent (from 51 per cent) in single brand retail, and plans to allow 100 per cent FDI in e-commerce, under the arrangement that the products sold must be manufactured in India to gain from the liberalized regime.
${ }^{(2)}$ Indian market has high complexities in terms of a wide geographic spread and distinct consumer preferences varying by each region necessitating a need for localization even within the geographic zones. India has highest number of outlets per person (7 per thousand) Indian retail space per capita at $2 \mathrm{sq} \mathrm{ft}\left(0.19 \mathrm{~m}^{2}\right)$ / person is lowest in the world Indian retail density of 6 percent is highest in the world. 1.8 million households in India have an annual income of over ₹ 4.5 million (US\$75,150.00).While India presents a large market opportunity given the number and increasing purchasing power of consumers, there are significant challenges as well given that over $90 \%$ of trade is conducted through independent local stores. Challenges include: Geographically dispersed population, small ticket sizes, complex distribution network, little use of IT systems, limitations of mass media and existence of counterfeit goods. A number of merger and acquisitions have begun in Indian retail market. PWC estimates the multi-brand retail market to grow to $\$ 220$ billion by 2020.The opening of retail industry to global competition is expected to spur a retail rush to India. It has the potential to transform not only the retailing landscape but also the nation's ailing infrastructure.

## Research Methodology

## Objectives of the Study

1. To understand the effect of age \& gender on retail format choice decision for food \& grocery segment products.
2. Identifying prime factors that affect retail format choice decision for food \& grocery segment.

## Hypothesis

1. There is significant difference in retail format choice with respect to gender of the shopper.
2. There is significant difference in retail format choice with respect to consumers age group
3. There is statistically significant interrelationship between variables affecting the choice of format choice in the food $\&$ grocery segment.

## Research Design

A research design is the arrangement of conditions for collection and analysis of data in a manner that aims to combine relevance to research purpose with economy procedure. Research design is the conceptual structure within which research is conducted. The research design adopted here is descriptive.

## Sources of Data

Primary data consists of original information gathered for specific purposes at hand. These are gathered for a specific purpose or for a specific research project. Primary data is collected through online survey.

Data Collection Method
For the collection of primary data, online survey was conducted.

## Sample Size

A sample of 603 was drawn from the population, which is the retail shoppers for food \& grocery segment in the city of Ahmedabad.

## Sampling Method

This study is exploratory as well as descriptive in nature, Primary data has been collected by framing a structured questionnaire as an instrument of survey. Sample survey has been conducted in the city of Ahmedabad. Ahmedabad is the Tier -II city of Gujarat
Sampling Method for the research was Non-Probabilistic, convenience Sampling Method.

## Sampling Unit

The sample units of this research are the retail shoppers for food \& grocery segment in the city of Ahmedabad.

## Data Collection Instrument

For the collection of primary data, a questionnaire was designed. This questionnaire contained Likert scale questions and questions pertaining to demographic information extraction.

## Data analysis

One way ANOVA between Retail format choice and Age in shopping for food \& grocery segment.

| ANOVA |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Sum of Squares | df | Mean Square | F | Sig. |
| Between Groups | 33.868 | 4 | 8.467 | 6.193 | .000 |
| Within Groups | 817.548 | 598 | 1.367 |  |  |
| Total | 851.416 | 602 |  |  |  |

## Interpretation

According to the table this shows the output of the ANOVA analysis and whether there is a statistically significant difference between our group means. It can be seen that the significance value is 0.000 (i.e., $p$ $=.00)$, which is below 0.05 . and, therefore, there is a statistically significant difference between Retail format choice and Age in shopping for food \& grocery segment.

## Post Hoc Test

| Multiple Comparisons |
| :---: |
| Dependent Variable: format Tukey HSD |


| (I) <br> age | (J) <br> age | MeanDiffer <br> ence (I-J) | Std. <br> Error | Sig. | 年5\% Confidence Interval |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Lower Bound | Upper Bound |  |  |  |  |  |
| 1 | 2 | -.167 | .138 | .744 | -.54 | .21 |
|  | 3 | -.100 | .138 | .951 | -.48 | .28 |
|  | 4 | $-.622^{*}$ | .134 | .000 | -.99 | -.25 |
|  | 5 | -.365 | .211 | .416 | -.94 | .21 |
| 2 | 1 | .167 | .138 | .744 | -.21 | .54 |
|  | 3 | .067 | .145 | .991 | -.33 | .46 |
|  | 4 | $-.455^{*}$ | .141 | .012 | -.84 | -.07 |
|  | 5 | -.198 | .215 | .889 | -.79 | .39 |
| 3 | 1 | .100 | .138 | .951 | -.28 | .48 |
|  | 2 | -.067 | .145 | .991 | -.46 | .33 |
|  | 4 | $-.522^{*}$ | .142 | .002 | -.91 | -.13 |
|  | 5 | -.265 | .216 | .735 | -.85 | .33 |
| 4 | 1 | $.622^{*}$ | .134 | .000 | .25 | .99 |
|  | 2 | $.455^{*}$ | .141 | .012 | .07 | .84 |
|  | 3 | $.522^{*}$ | .142 | .002 | .13 | .91 |
|  | 5 | .257 | .213 | .749 | -.33 | .84 |
| 5 | 1 | .365 | .211 | .416 | -.21 | .94 |
|  | 2 | .198 | .215 | .889 | -.39 | .79 |
|  | 3 | .265 | .216 | .735 | -.33 | .85 |
|  | 4 | -.257 | .213 | .749 | -.84 | .33 |

*. The mean difference is significant at the 0.05 level.
Post hoc test reveals that there is significant difference in preference for retail format choice age group 15-25 years, $26-35$ years, $36-45$ years \& 46-55 years, but the age group 55 \& above have different preferences while choosing the retail format for food \& grocery products shopping.

Further relationship among age groups \& Retail format Choice is examined by Multinomial Logistic Regression

Mann-Whitney Test between Retail Format choice and Gender

| Ranks |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| gender |  | N | Mean Rank | Sum of Ranks |
| format | 1 | 316 | 241.66 | 76366.00 |
|  | 2 | 203 | 288.54 | 58574.00 |
|  | Total | 519 |  |  |

The table above it indicates which group can be considered as having the higher association namely, the group with the highest mean rank. Therefore, the female group has higher impact on format choice in the food \& grocery segments.

Test Statistics

|  | format |
| :---: | :---: |
| Mann-Whitney U | 26280.000 |
| Wilcoxon W | 76366.000 |
| Z | -3.629 |
| Asymp. Sig. (2-tailed) | .000 |

a. Grouping Variable: gender it can be concluded that format choice decision is statistically significantly higher in female groups ( $U=$ $26280.000, p=.000$ ).

Further relationship Gender, age groups \& Retail format Choice is examined by Multinomial Logistic Regression

| Reliability Statistics |  |
| :---: | :---: |
| Cronbach's'Alpha | N of Items |
| .937 | 69 |

Cronbach's alpha is a measure of internal consistency, that is, how closely related a set of items are as a group. it is a coefficient of reliability (or consistency). Reliability of questionnaire was tested by calculating Cronbach Alpha. The reliability stands at .937 which is more than .07 , suggesting that the items have relatively high internal consistency.

| KMO and Bartlett's 'Test |  |  |  |
| :---: | :---: | :---: | :---: |
| Kaiser-Meyer-Olkin Measure of Sampling Adequacy. | .845 |  |  |
| Bartlett's 'Test of | Approx. Chi-Square | 17886.120 |  |
| Sphericity | df | 2346 |  |
|  | Sig. | .000 |  |

The Kaiser-Meyer-Olkin is the measure of sampling adequacy, which varies between 0 and 1 .

The Kaiser-Meyer Olkin (KMO) and Bartlett's 'Test measure of sampling adequacy was used to examine the appropriateness of Factor Analysis. The KMO statistic of 0.845 is also large (greater than 0.50 ).

## Factor Analysis.

Exploratory factor analysis (EFA)
(EFA) is used to identify complex interrelationships among items and group items that are part of unified concepts. The researcher makes no a priori assumptions about relationships among factors.Commonality is the square of standardized outer loading of an item. Analogous to Pearson's'r, the squared factor loading is the percent of variance in that indicator variable explained by the factor. To get the percent of variance in all the variables accounted for by each factor, add the sum of the squared factor loadings for that factor (column) and divide by the number of variables.

| Communalities |  |  |
| :---: | :---: | :---: |
|  | Initial | Extractio |
| Belongingness | 1.000 | . 614 |
| Family orientation | 1.000 | . 763 |
| Family opinion | 1.000 | . 725 |
| review | 1.000 | . 686 |
| Proud of known | 1.000 | . 697 |
| More ability | 1.000 | . 672 |
| New things | 1.000 | . 647 |
| Variety is spice | 1.000 | . 637 |
| Independent decision | 1.000 | . 677 |
| Charge of group | 1.000 | . 575 |
| Women better | 1.000 | . 696 |
| presentable | 1.000 | . 551 |
| Reflect personality | 1.000 | . 597 |
| Track new trend | 1.000 | . 658 |
| Feel good | 1.000 | . 681 |
| Fun excitement | 1.000 | . 687 |
| Branded reliable | 1.000 | . 593 |
| Not compare price | 1.000 | . 621 |
| Window display | 1.000 | . 578 |
| all@ single store | 1.000 | . 635 |
| discount | 1.000 | . 663 |
| Less crowd | 1.000 | . 669 |
| Pack size | 1.000 | . 639 |
| Saves time | 1.000 | . 663 |
| Nearest store | 1.000 | . 621 |
| Sale announcement | 1.000 | . 660 |
| Pleasant experience | 1.000 | . 636 |
| Regular shopper | 1.000 | . 569 |
| Fixed format | 1.000 | . 710 |
| Convenient location | 1.000 | . 618 |
| Easily accessible | 1.000 | . 642 |
| Timing | 1.000 | . 638 |
| One stop shopping | 1.000 | . 684 |
| Quality merchandise | 1.000 | . 615 |
| Choice for selection | 1.000 | . 657 |
| Well-known brands | 1.000 | . 600 |
| Lower prices | 1.000 | . 635 |
| Reasonable price | 1.000 | . 620 |
| Value for money | 1.000 | . 630 |
| Free home delivery | 1.000 | . 668 |
| Promotional offer | 1.000 | . 589 |
| Frequency of sale | 1.000 | . 577 |
| Redemption is the reason | 1.000 | . 681 |
| Sales personnel | 1.000 | . 701 |
| Trust product knowledge | 1.000 | . 632 |
| Personnel respond | 1.000 | . 673 |
| Billing speed | 1.000 | . 752 |
| Easy return | 1.000 | . 636 |
| Club membership | 1.000 | . 666 |
| Value added services leads to repeated visit | 1.000 | . 697 |
| Store design | 1.000 | . 636 |
| display | 1.000 | . 557 |
| stylish | 1.000 | . 658 |

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| cleanliness | 1.000 | .759 |
| :--- | :--- | :--- |
| ambience | 1.000 | .676 |
| Credit card | 1.000 | .640 |
| Safe parking | 1.000 | .693 |
| Children activity | 1.000 | .678 |
| Stress free | 1.000 | .648 |
| Low social status | 1.000 | .686 |
| Urgent items | 1.000 | .669 |
| Large quantities | 1.000 | .621 |
| Routine activity | 1.000 | .650 |
| New ideas | 1.000 | .665 |
| Continue visit | 1.000 | .711 |
| Visit again | 1.000 | .680 |
| Like grocery | 1.000 | .680 |
| Recommend to friends | 1.000 | .668 |
| Shop online | 1.000 | .563 |

Extraction Method: Principal Component Analysis.
Exploratory Factor analysis was run to identify the prominent factors. communality is the extent to which an item correlates with all other items. The communality for a given variable can be interpreted as the proportion of variation in that variable explained by the factors.Since commonality score of all the variables is above 0.5 the study shall proceed by including all the variables for factor analysis.After running factor analysis, the following factors were identified and named.

The identified and rechristened factors under the study are following

1. Store feel
2. Affinity towards the store
3. Merchandise composition
4. Store operations parameters
5. Assurance of store choice
6. Emotional orientation towards Store choice
7. shopping outlook
8. value added store offerings
9. store fidelity
10. price sensitivity
11. feel good factor
12. in store ambience
13. conscious about store experience
14. outdoor display
15. vicinity
16. product denomination
17. matches shopper's personality
18. women oriented activity
19. group decision maker

## Total Variance Explained

| $\begin{array}{l\|} \hline \text { Com } \\ \text { pone } \end{array}$ | Initial Eigenvalues |  |  | Extraction Sums of Squared Loadings |  |  | Rotation Sums of Squared Loadings |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| nt | Total | \% of Varia nce | Cumul <br> ative \% | Total | \% of Varia nce | Cumu lative \% | Total | \% of <br> Varia <br> nce | $\begin{array}{\|c} \text { Cumu } \\ \text { lative } \\ \% \end{array}$ |


| $\mathbf{1}$ | 13.394 | 19.411 | 19.411 | 13.394 | 19.411 | 19.411 | 3.292 | 4.771 | 4.771 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |


| $\mathbf{2}$ | 3.748 | 5.431 | 24.843 | 3.748 | 5.431 | 24.843 | 3.129 | 4.535 | 9.306 |
| :---: | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| $\mathbf{3}$ | 2.785 | 4.036 | 28.879 | 2.785 | 4.036 | 28.879 | 2.776 | 4.023 | 13.329 |


| $\mathbf{3}$ | 2.785 | 4.036 | 28.879 | 2.785 | 4.036 | 28.879 | 2.776 | 4.023 | 13.329 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| $\mathbf{4}$ | 2.522 | 3.654 | 32.53 | 2.522 | 3.654 | 32.533 | 2.636 | 3.821 | 17.149 |


| $\mathbf{4}$ | 2.522 | 3.654 | 32.533 | 2.522 | 3.654 | 32.533 | 2.636 | 3.821 | 17.149 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| $\mathbf{5}$ | 2.224 | 3.223 | 35.756 | .224 | 3.223 | 35.756 | 2.633 | 3.815 | 20.965 |


| $\mathbf{5}$ | 2.224 | 3.223 | 35.756 | 2.224 | 3.223 | 35.756 | 2.633 | 3.815 | 20.965 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | | $\mathbf{6}$ | 2.149 | 3.115 | 38.871 | 2.149 | 3.115 | 38.871 | 2.613 | 3.787 | 24.752 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | | 7 | 1.955 | 2.833 | 41.704 | 1.955 | 2.833 | 41.704 | 2.566 | 3.718 | 28.470 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| 8 | 1.747 | 2.531 | 44.735 | 1.747 | 2.531 | 44.235 | 2.523 | 3.657 | 32.127 | | $\mathbf{8}$ | 1.747 | 2.531 | 44.235 | 1.747 | 2.531 | 44.235 | 2.523 | 3.657 | 32.127 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\boldsymbol{9}$ | 1.704 | 2.470 | 46.705 | 1.704 | 2.470 | 46.705 | 2.517 | 3.648 | 35.775 |


| $\mathbf{9}$ | 1.704 | 2.470 | 46.705 | 1.704 | 2.470 | 46.705 | 2.517 | 3.648 | 35.775 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{1 0}$ | 1.62 | 2.379 | 4.08 | 1.642 | 2.379 | 4.084 | 2.374 | 3.441 | 39.216 |


| $\mathbf{1 0}$ | 1.642 | 2.379 | 49.084 | 1.642 | 2.379 | 49.084 | 2.374 | 3.441 | 39.216 |
| :---: | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |


| $\mathbf{1 1}$ | 1.601 | 2.320 | 51.404 | 1.601 | 2.320 | 51.404 | 2.371 | 3.436 | 42.652 |
| :---: | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| $\mathbf{1 2}$ | 1.371 | 1.988 | 53.39 | 1.371 | 1.988 | 53.392 | 2.160 | 3.131 | 45.783 |




| $\mathbf{1 4}$ | 1.270 | 1.841 | 57.123 | 1.270 | 1.841 | 57.123 | 2.028 | 2.939 | 51.697 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| $\mathbf{1 5}$ | 1.208 | 1.750 | 58.873 | 1.208 | 1.750 | 58.873 | 2.023 | 2.932 | 54.629 |


| $\mathbf{1 5}$ | 1.208 | 1.750 | 58.873 | 1.208 | 1.750 | 58.873 | 2.023 | 2.932 | 54.629 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| $\mathbf{1 6}$ | 1.59 | 1.680 | 60.553 | 1.159 | 1.680 | 60.553 | 1.933 | 2.801 | 57.430 |


| $\mathbf{1 6}$ | 1.159 | 1.680 | 60.553 | 1.159 | 1.680 | 60.553 | 1.933 | 2.801 | 57.430 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{1 7}$ | 1.20 | 1.623 | 6.17 | 1.120 | 1.623 | 62.176 | 1.932 | 2.800 | 60.231 |


| $\mathbf{1 7}$ | 1.120 | 1.623 | 62.176 | 1.120 | 1.623 | 62.176 | 1.932 | 2.800 | 60.231 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{1 8}$ | 1.53 | 1.527 | 63.702 | 1.053 | 1.527 | 63.702 | 1.713 | 2.482 | 62.713 |


| $\mathbf{1 8}$ | 1.053 | 1.527 | 63.702 | 1.053 | 1.527 | 63.702 | 1.713 | 2.482 | 62.713 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{1}$ | 1.06 | 1.473 | 65.175 | 1.0 | 1.473 | 65.175 | 1.699 | 2.462 | 65.175 |


| $\mathbf{1 9}$ | 1.016 | 1.473 | 65.175 | 1.016 | 1.473 | 65.175 | 1.699 | 2.462 | 65.175 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | | $\mathbf{2 0}$ | .958 | 1.388 | 66.564 |
| :---: | :---: | :---: | :---: |
| $\mathbf{2 1}$ | .941 | .364 | 67.927 |


| $\mathbf{2 1}$ | .941 | 1.364 | 67.927 |
| :--- | :--- | :--- | :--- |
| $\mathbf{2 2}$ | .923 | 1.337 | 69.264 |


| $\mathbf{2 3}$ | .912 | 1.322 | 70.587 |  |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| $\mathbf{2 4}$ | .873 | 1.265 | 71.852 |  |  |  |  |  |  |
| $\mathbf{2 5}$ | .829 | 1.201 | 73.053 |  |  |  |  |  |  |
| $\mathbf{2 6}$ | .799 | 1.158 | 74.210 |  |  |  |  |  |  |
| $\mathbf{2 7}$ | .789 | 1.144 | 75.354 |  |  |  |  |  |  |
| $\mathbf{2 8}$ | .732 | 1.061 | 76.415 |  |  |  |  |  |  |
| $\mathbf{2 9}$ | .700 | 1.014 | 77.429 |  |  |  |  |  |  |
| $\mathbf{3 0}$ | .680 | .986 | 78.415 |  |  |  |  |  |  |
| $\mathbf{3 1}$ | .672 | .974 | 79.389 |  |  |  |  |  |  |
| $\mathbf{3 2}$ | .653 | .946 | 80.335 |  |  |  |  |  |  |
| $\mathbf{3 3}$ | .619 | .897 | 81.232 |  |  |  |  |  |  |
| $\mathbf{3 4}$ | .591 | .857 | 82.089 |  |  |  |  |  |  |
| $\mathbf{3 5}$ | .571 | .828 | 82.916 |  |  |  |  |  |  |
| $\mathbf{3 6}$ | .558 | .809 | 83.725 |  |  |  |  |  |  |
| $\mathbf{3 7}$ | .539 | .781 | 84.506 |  |  |  |  |  |  |
| $\mathbf{3 8}$ | .528 | .765 | 85.271 |  |  |  |  |  |  |
| $\mathbf{3 9}$ | .515 | .747 | 86.018 |  |  |  |  |  |  |
| $\mathbf{4 0}$ | .510 | .739 | 86.757 |  |  |  |  |  |  |
| $\mathbf{4 1}$ | .488 | .707 | 87.464 |  |  |  |  |  |  |
| $\mathbf{4 2}$ | .477 | .691 | 88.156 |  |  |  |  |  |  |
| $\mathbf{4 3}$ | .465 | .673 | 88.829 |  |  |  |  |  |  |
| $\mathbf{4 4}$ | .448 | .649 | 89.478 |  |  |  |  |  |  |
| $\mathbf{4 5}$ | .444 | .644 | 90.122 |  |  |  |  |  |  |
| $\mathbf{4 6}$ | .420 | .609 | 90.730 |  |  |  |  |  |  |
| $\mathbf{4 7}$ | .411 | .595 | 91.326 |  |  |  |  |  |  |
| $\mathbf{4 8}$ | .406 | .588 | 91.914 |  |  |  |  |  |  |
| $\mathbf{4 9}$ | .372 | .539 | 92.453 |  |  |  |  |  |  |
| $\mathbf{5 0}$ | .364 | .528 | 92.981 |  |  |  |  |  |  |
| $\mathbf{5 1}$ | .362 | .524 | 93.505 |  |  |  |  |  |  |
| $\mathbf{5 2}$ | .347 | .503 | 94.008 |  |  |  |  |  |  |
| $\mathbf{5 3}$ | .336 | .487 | 94.495 |  |  |  |  |  |  |
| $\mathbf{5 4}$ | .319 | .463 | 94.957 |  |  |  |  |  |  |
| $\mathbf{5 5}$ | .311 | .451 | 95.409 |  |  |  |  |  |  |
| $\mathbf{5 6}$ | .307 | .445 | 95.854 |  |  |  |  |  |  |
| $\mathbf{5 7}$ | .294 | .426 | 96.280 |  |  |  |  |  |  |
| $\mathbf{5 8}$ | .278 | .403 | 96.683 |  |  |  |  |  |  |
| $\mathbf{5 9}$ | .268 | .389 | 97.072 |  |  |  |  |  |  |
| $\mathbf{6 0}$ | .262 | .380 | 97.452 |  |  |  |  |  |  |
| $\mathbf{6 1}$ | .242 | .350 | 97.802 |  |  |  |  |  |  |
| $\mathbf{6 2}$ | .225 | .326 | 98.128 |  |  |  |  |  |  |
| $\mathbf{6 3}$ | .213 | .309 | 98.437 |  |  |  |  |  |  |
| $\mathbf{6 4}$ | .206 | .299 | 98.736 |  |  |  |  |  |  |
| $\mathbf{6 5}$ | . .194 | .281 | 99.017 |  |  |  |  |  |  |
| $\mathbf{6 6}$ | .191 | .276 | 99.293 |  |  |  |  |  |  |
| $\mathbf{6 7}$ | .181 | .262 | 99.555 |  |  |  |  |  |  |
| $\mathbf{6 8}$ | .177 | .256 | 99.811 |  |  |  |  |  |  |
| $\mathbf{6 9}$ | .130 | .189 | 100.00 |  |  |  |  |  |  |
| $\mathbf{4}$ |  |  |  |  |  |  |  |  |  |

Extraction Method: Principal Component Analysis.
On the basis of Varimax Rotation with Kaiser Normalization, 19 factors have been extracted. All the 19 factors together explain for $65.07 \%$ of the variance in Choice of retail format in food \& grocery segment

## Findings

The study reveals that with respect to age of the shopper in the food $\&$ grocery segment of retail market there is difference in the preference for the retail format type in the higher age bracket. While with respect to gender it is revealed that females have preferences for the format type. This is an outcome pertaining to the Indian value system wherein the food \& grocery segment decisions are still to a large extent dominated by the female segment .It draws attention towards maneuvering retail offerings keeping in mind female shoppers. Further ,it is concluded that food \& grocery products shopping in india is still female dominated decision making process.

## References

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