CHAPTER - V

MOTIVATION AND PRODUCT PREFERENCE

The question of motivating consumers must be approached by analysing the needs of groups of consumers known as market segments aimed at with a view to stimulate relevant motives towards satisfying such needs by purchasing products as services. The knowledge of consumer needs is essential for designing the product and also for developing effective promotional strategies. The earlier efforts were directed towards listing and classifying the relevant motives. classifications like primary and selective motives, rational and emotional motives, patronage motives, conscious and dormant motives, were suggested by the workers in this field. These classifications did not prove to be useful because they were based on arm-chair philosophising. No emperical attempts were made for arriving at realistic classifications of motives. Consider, for example, an advertisement on dress material in which a man in attractive dress, standing in a particular posture, looking very gracious is shown to be surrounded by a few girls. If the persons watching this advertisement are asked to list the motives this advertisement is expected to depict, they may be able to list a few motives. The motives that operate at the time when the cloth is purchased are quite different from those which are

depicted in the advertisement. A more systematic attempt was made by Maslow for classifying the motives or needs.

Maslow observed that when two or more motives are competing for their expression, usually the more dominant motive determines the course of action. This observation led him to formulate his need hierarchy theory of motivation.

Subsequently many other attempts have been made to develop more meaningful classifications of needs.

There are two important variables which determine the consumer's choice. They are consumer needs and product attributes. Consumers could be classified as habit-determined group, group with rational consideration, price oriented group, impulse group and as group in which psychological behaviour dimensions are not yet fully established. habit oriented consumers are generally brand loyal; consumers with rational considerations will always look for some objective criteria while evaluating the product; the price oriented consumers will give much more importance to price while purchasing; impulse group can easily be influenced by physical appeals. The product thus exerts its influence on an individual's buying behaviour. Products can also be classified in terms of the most appropriate appeal that could be made to induce the buyers to purchase the product. Prestige and status products, for example, appeal to the

esteem need. Thus brands suggesting high quality or success are likely to be purchased by those consumers who are high on esteem needs. Anxiety products involve ego defense and help to relieve social or personal threat. Soaps, perfumes and toothpastes may be included in this category because the appeals based on affectionate relationship with people and respectable place in the group could easily be adapted to these products. Most of the utility products could be best advertised by appealing to safety and physiological needs. These illustrations point to the fact that products are purchased because they provide satisfactory to the needs of consumers. What the product offers is more important than its features.

The consumer analysts should probe into the minds of the consumers in order to link up a particular supply with appropriate needs. While purchasing the product or while deciding to purchase the product the consumers try to understand the product in terms of its various physical or functional attributes. The product preference score can be obtained by considering the extent to which these attributes are given importance by the buyer. These scores can be related to the needs of the consumer is seeking to satisfy. Thus motivating the consumer requires a systematic approach involving the assessment of consumers' needs and analysis of the products' subjective and objective aspects.

In the present investigation the consumer needs have been assessed by means of Edwards Personal Preference Schedule (FPPS). The subjective and objective aspects of the product are defined in terms of various common attributes which are considered important by consumer's and marketing analysts. The main objective of the present Chapter is to know to what extent consumer preferences could be predicted from needs the consumers are seeking to satisfy. As mentioned in the third chapter the groups of respondents were based on two communities, viz., Gujarati and Maharashtrians, and sex of the respondents. First, multiple correlation coefficients will be presented for each of the four products both communitywise and sexwise. This will be followed by the examination of partial correlations to see the specific groupings based on product attributes and RPPS needs. (Table No.5.1, see page No.223).

The results in Table 5.1 indicate that among Maharash-trians product preference in terms of reaction/sensitivity to skin is the only functional aspect of the product that is significantly predicted from MPPS needs. In case of Gujarati the various product attributes significantly predicted from SPPS needs are foam/lather (0.32), hardness of the soap (0.31), newly introduced brand (0.31) and reaction/sensitivity to skin (0.34). These attributes taken together could be described as physical-functional, attitudinal and external

to the product. Thus in case of Gujarati atleast four product attributes have been predicted from EPPS needs. Although the correlations are not very high but they do account for the significant proportion of the total variance. (Tables 5.2 & 5.3). (See page No.224).

Referring to Tables 5.2 and 5.3 it is seen that none of the motivational variables is significantly correlated with product attributes. This shows that each of the motivational factors in the absence of other motivational factors fails to contribute to the product preference scoes on different attributes of a toilet soap product. Most of the correlations are either low positive or low negative. Thus prediction of certain attributes is possible from the combined EPPS scores but each factor by itself ails to correlate with any of the product attributes to a significant extent. (Table No.5.4, See page No.224).

Referring to Table 5.4 which shows multiple correlation coefficients between product preference scores and EPPS needs for each of the two communities, it is observed that none of the multiple R is significant in case of Maharashtrians. In case of Gujarati the attribute formula/content is significantly predicted from EPPS variables. On the whole the results indicate that product preferences cannot be predicted from EPPS needs. The results are surprising in view of the fact that tooth-paste product is purchased by considering its different attributes and yet product

preference in respect of these attributes is not predictable from EPPS needs. It may be that the motivational measures in terms of EPPS test are not very relevant for predicting the product preference scores. This finding is in agreement with number of past researches which failed to show any significant relationship between EPPS needs and product purchase. This lack of relationship does not, however, mean that motivational factors do not play any part in predicting preference scores. It may mean that if the needs are assessed in the marketing context the relationship may be found. Unlike Maharashtrians, Gujaratis seem to be more concerned about formula/content of the toothpaste product. The various correlations in Table 5.4 all positive and slightly higher but except one they fail to reach the level of significance.

Considering now the results of partial correlations in Tables 5.5 and 5.6 which indicate partial correlation coefficients between various product attributes and EPPS needs, it is observed that in case of Maharashtrians flavour is significantly but negatively correlated with succourance and formula/content, is also negatively but significantly correlated with autonomy. Other correlations are quite low and insignificant. Even the two significant correlations are not very high. On the whole the results of Table 5.5 indicate that the motivational factors taken singly do not

contribute to product preference (toothpaste) in terms of various attributes. So far as the results of Table 5.6 are concerned except the need for achievement all other motivational factors are significantly and positively correlated with the attribute 'habit'. The significant correlations are not very high but they range from .13 to .18. The attribute 'habit' is external to the product. It connotes more strongly the routine nature of purchasing the toothpaste product. The lack of relationship between product preference in terms of its various attributes and EPPS needs in case of Maharashtrians may be due to the inappropriateness of the DPPS as a measure of needs in a marketing context. The same could be said about Gujarati community because most of the correlations of needs with product attributes are very low.

Table No.5.7 (see page No.229) shows that the results of multiple correlation coefficients between product preference scores and EPPS needs according to community. It shows that the multiple R of .35 in case of Maharashtrians for fragrance is significant. Other correlations though positive are insignificant. In case of Gujaratis, the multiple Rs of .36 (Fragrance), .33 (naturality), and .34 (smoothness) are significant. Thus, the attribute fragrance is significantly predicted from EPPS needs in case of both the communities.

The attribute fragrance is related to the physical content of the product. The other two attributes viz., naturality and smoothness which are significantly predicted among Gujaratis are also related to the physical aspect of the product. Thus, both Gujaratis and Maharashtrians are emphasizing the physical aspect of the product face/talcumpowder but more of the physical attributes are significantly predicted among Gujaratis than among Maharashtrians.

Referring to the results of Table 5.8 and 5.9

(See page No.230) which indicate partial correlations between attributes and needs it can be seen that only two correlations are significant in case of Maharashtrians. The correlation of "endurance" with "Attractive container" is significant (-.14) but it is negative. The correlation between "imparts freshness" and "achievement" is also significant but it is positive. Both correlations are not very high. All other correlations are very low and insignificant. On the whole It could be said that the various EPPS needs taken separately fail to correlate substantially with different product attributes in case of Maharashtrians. In case of Gujaratis none of the partial correlations is significant. This again may be due to the fact that the EPPS needs are not relevant in a marketing context.

Table 5.10 (See page No. 232) shows multiple correlation coefficients separately for the two communities in case of "the product dress material/cloth. So far as Maharashtrian group is concerned the multiple RS of 0.35 (Sober/ light colour) and 0.36 (Sober/design/plain) are significant. The variance accounted for in terms of EPPS needs in the two dependent variables (product attributes) is quite considerable. These two attributes that are significantly predicted refer to the physical aspect of the product. case of Gujæratis the attributes 'dark colour' (0.32), different types for different weather conditions (0.36), feel of the cloth, i.e. texture (0.33), latest/new type of material (0.38) and others opinion (0.31) are significantly predicted from RPPS needs. These attributes refer to physical, functional and attitudinal aspects of the product. Dark colour and feel of the cloth (texture) are purely physical attributes; different types for different weather conditions is a functional type of attribute and latest/ new type material as well as others' opinion refer to the attitudinal aspect of the product. So far as the economic aspect (price) of the product is concerned the multiple 'R' is higher (0.30) in case of Maharashtrians than in case of Gujaratis (0.25). The multiple RS for attributes different types for different weather conditions (0.32)

feel of cloth (0.31) and price (.30) though insignificant are very close to the significant value among Maharashtrians. In terms of the actual results in Table 5.10 more attributes are significantly predicted among Gujaratis than among Maharashtrians.

Referring to Table 5.11 it is observed that none of partial correlations is significant among Maharashtrians (see page no.233). The correlations are very low. In case of Gujaratis (Table No. 5.12, see page No.234) except the partial correlations of "different types of different weather conditions", with deference, exhibition and dominance all other correlations are low and insignificant. Even the significant correlations are also not very high. Thus on the whole, it could be seen that EPPS needs taken singly do not correlate with the product attributes.

In general the differences between the two communities are not consistent for all the four product groups. On the whole more attributes are significantly predicted among Gujaratis than among Maharashtrians. Most of the partial correlations for both the communities fail to reach the level of significance. As already indicated this lack of relationship may be due to the fact that the EPPS needs are not relevant in a marketing context. The results in

terms of multiple R^S indicate that EPPS needs taken together do account for variance to a certain extent but the proportion of variance accounted for in this manner is not very high.

Sex Difference in Consumer Product Preferences :

In this section male and female respondents have been compared with respect to the results of multiple correlation coefficients and partial correlation coefficients separately for each of the four products. Table 5.13 (see page No.235) shows the results of multiple correlation coefficients in case of Toilet soap.

Referring to Table 5.13 it is observed that none of the multiple R^S is significant in case of males. In case of feamles the multiple R of .36 and of .35 for the attributes germicidal/medicinal and reaction/Sensitivity respectively are significant. In case of males the correlation coefficients are lower than those in case of females. It should be noted here that germicidal/medicinal is a physical attribute while reaction/sensitivity to skin is a functional attribute.

Among males the lowest correlation coefficient was for price (0.17) and among females the lowest correlation coefficient was 0.27 for imparts freshness and lasts longer attributes. Thus motivational factors fail to predict any of the

attribute scoes in case of males whereas in case of females at least two - one physical and the other functional - attributes are significantly predicted. In view of slightly higher correlations though its insignificant among females in comparison to those in males, it could be said that preference scores could be better predicted in the former than in the later group. It should be noted here that the attributes foam/lather, hardness of soap, lasts longer and price connote the economic aspect of the product. The multiple R^S for these attributes are slightly higher among females than among males.

So far as the results in Table 5.14 are concerned hardness of the soap correlated negatively but significantly with achievement (-.14), affiliation (-.14), intraception (-.13), abasement (-.13), and aggression (-.13). All other correlations are quite low and insignificant. Even the significant correlations are not very high. In case of females (Table 5.15, see page No.237) product preference score based on others' opinion is correlated positively and significantly with achievement (.17), deference (.15), order (.15), exhibition (.14), Succourance (.14), dominance (.13), abasement (.16), nurturance (.16), heterosexuality (.18), and aggression (.15). Newly introduced brand to negatively but significantly correlated with autonomy. All

other correlations are low and insignificant. Thus others' opinion is strongly relied upon by those female respondents who score relatively high on the above mentioned needs with which it is positively and significantly correlated. The attribute others? opinion is attitudinal in nature.

Referring to the results of Table 5.16 (see page No.238) which shows multiple correlation coefficients between APPS needs and preference of toothpaste product it can be seen that among males feel fresh (0.33) and newly introduced brand (0.33) are significantly predicted from APPS needs. In case of female subjects none of the multiple Rs is significant.

The multiple Rs of formula/content, germicidal/
medicinal, and habit though insignificant are slightly
higher among female subjects than among male subjects. Of
the two attributes which are significantly predicted among
males one is functional and the other is attitudinal. All
the physical attributes like flavour, formula/content,
germicidal/medicinal, and taste had low correlations in
males as compared to females.

The results in Table 5.17 (see page No.239) show that the attribute foam/lather of the toothpaste product correlates positively and significantly with achievement (0.13), order

(0.15), exhibition (0.16), autonomy (0.14), nurturance (0.13), change (0.13) and endurance (0.13). All other correlations are quite low and insignificant. In case of female subjects formula/content correlates negatively and significantly with affiliation (-0.13), Succorance (-0.14), and heterosexuality (-0.14). Habit correlates positively and significantly with affiliation (0.15) and deference (0.14). The attribute others' opinion is also positively and significantly correlated with deference. Thus females scoring low on affiliation, succorance, and heterosexuality tend to purchase the toothpaste product by considering its formula/content. Also for female subjects high on deference and affiliation product purchase is relatively a habitual matter. Female subjects high on deference also seem to rely upon others' opinion while purchasing toothpaste.

The results of Table 5.19 (see page No.24) indicate that in case of males the multiple R of .31 is significant for naturality and in case of females the multiple 'R' of .36 is significant for habit. The multiple Rs for attractive container, fragrance and imparts freshness are slightly higher among females than among males. Most of the physical and functional attributes and also attitudinal attributes are not significantly predicted from EPPS needs for both male and female subjects.

Referring to Table No.20 & 21 (See page No.243) it is observed that among males imparts freshmess is positively and significantly correlated with all the EPPS needs. The multiple R for this attribute was not significant. Thus the expected score based on all the EPPS needs fail to correlate significantly with the actual score on "imparts freshmess" but the score on each need taken singly correlates to a significant extent with the score on "imparts freshmess". All other correlations are low and insignificant. In case of females none of the partial correlations is significant. Thus the EPPS needs fail to contribute to purchase based on any of the ten attributes of the face/talcum powder.

The results of Table 5.22 (see page No.244) show that the multiple R of .31 for sober/light colour is barely significant in case of males. In case of females the multiple Rs of .37 and of .35 for 'different types for different weather conditions' and dark colour are significant respectively. It can also be observed from Table 22 that the multiple Rs for feel of the cloth, latest/new type of material, price, and type of fabric are slightly higher among female subjects than among male subjects. In case of males except the correlation of .30 for others' opinion all other correlations are low.

Referring to Table 5.23 (see page No.245), it is observed that others' opinion is negatively and significantly correlated with autonomy and nurturance. All other correlations are very low and insignificant. In case of female subjects none of the partial correlations is significant.

Considering the overall results of multiple correlations for the two communities it could be said that the attributes referring to the physical and attitudinal aspects of the product are better predicted from EPPS needs among Gujarati than among Maharastrians. The number of attributes predicted from EPPS needs is much less among Maharashtrians than among Gujarati. The predicted values of correlations rarely exceed.40. This indicates that the variance accounted for in terms of RPPS needs is not very substantial. The overall predictability is not very satisfactory. This overall low predictability may be due to the fact that needs as they are measured by means of MPPS are not very relevant in a marketing context. If needs are defined sufficiently broadly in relation to marketing activities they might predict consumer preferences to a considerable extent. So far as the results of partial correlation are concerned none of the partial correlations

between product attributes of toilet soap as well as dress materials and EPPS needs is significant among Maharashtrians. In case of Gujarati none of the partial correlations is significant for toilet soap. For the tooth paste product the correlations of autonomy with formula/content and of succorance with flavour are low negative and significant among Maharashtrians. In the same community the correlation of endurance with attractive container is low negative and significant and the correlation of achievement with imparts freshness is low positive and significant for face/talcum powder.

These attributes are physical and functional in nature. In case of Gujarati habit attribute of tooth paste correlated positively and significantly with all except one needs. Also imparts freshness attribute of face/talcum powder is positively and significantly correlated with deference and change. All other correlations are very low and insignificant. On the whole the EPPS needs taken separately do not contribute to the product preference of both Maharashtrians and Gujaratis.

In case of male Hardness of soap correlates negatively and significantly with achievement, affiliation, intraception, abasement and aggression; Foam/lather of toothpaste correlates positively and significantly with achievement,

order, exhibition, autonomy, nurturance, change and endurance; imparts freshness of face/talcum powder correlates positively and significantly with all except one needs. Others' opinion in case of dress material correlates negatively with autonomy and nurturance. These correlations though significant are not very high. In case of female others' opinion attribute of toilet soap correlates positively and significantly with eleven of the fifteen needs; while newly introduced brand correlates negatively with autonomy only. The attribute formula/content of the toothpaste product correlated negatively and significantly with affiliation, succourance, and heterosexuality; habit correlates positively with deference and affiliation; Others opinion correlates positively with deferance. None of the partial correlations are significant in case of face/talcum powder and dress material. Here also the significant correlations are not very high. Thus on the whole EPPS needs fail to contribute to the product preference of both Male and Female subjects.

TABLE NO. 5:1

PRODUCT GROUP-I - TOILET SOAP

Multiple Correlation Coefficient between EPPS Needs and Product Preference Scores According to Community:

	Product P	
Attributes	MH	GU
1. Foam/Lather	0.29	0.32*
2. Imparts freshness	0.21	0.19
3. Germicidal/Medicinal	0.29	0.28
4. Habit	0.21	0.23
5. Hardness of the Soap	0.26	0.31
6. Lasts longer	0.23	0.27
7. Newly introduced brand	0.29	0.31
8. Others' opinion	0.28	0.27
9. Price	0.19	0.26
10. Reaction/Sensitivity to skin	0.40**	0.34**
•		•

Significant Level 0.01**

0.05*

MH = Maharashtrians

GU = Gujarati.

0.00. **00.0

Significant Level

TABLE NO. 5.2

PRODUCT GROUP -I - TOILET SOAP

Partial Correlation Coefficients Between Attributes and MPPS Needs Amongs

MAHARASHTRIANS

RPP.S	Foam/ Lather	Imparts Fresh- ness	Germi- cidal/ Medi- cinal	Habit	Hard- ness of the Soap	Lasts Long- er	Newly Intro- duced Brand	Others' Opinion	Frice	Reaction/ Sensi- tivity to Skin
Achievement	80-	-0	-05	10		<u>.</u>	-01	.01	7 0 7	0,0%
Deference	- 02	-02	01	- 08		.02	04	02	404	101
Order	- 02	-03	10	10	-	-04	03	05	-02	90-
Exhibition	-03	105	्	10		04	90	04	-0-	- 04
Autonomy	-05	-05	LO-	000	-10	00	90	02	-03	-05
Affiliation	90 -	-03	705	=		-02	04	05	LO-	-07
Intraception	+03	90-	105	7		101		001	-05	-03
Succourance	- 04	404	- 02	L 07	601	04	08	05	104	03
Domin an ce	60	40-	103	7	-04	05	03	03	- 02	00
Abasement	LO-	-03	-05	<u>-07</u>		04	90	90	-03	+0 +
$N_{\tt urburance}$	<u>-07</u>	-02	-03	0110	-05	90	01	-05	-01	- 02
Oh an ge	L 07	101	-01		60-	8	00	404	-03	-03
Endurance	90-	01	. 20-	-12	60-	01	02	04	-03	02
Heterosaxuality	-03	-03	40-	7	-12	02	05	02	-05	-05
Aggression	40-	101	-03	7	7	01	03	01	-03	

PRODUCT GROUP -I - TOILET SOAP

Partial Correlation Coefficients Between Attributes and EPPS Needs Among

GUJ ARATI

EPPS	Foam Lather	Imparts Fresh- ness	Germi- cidal/ Medi- cinal	Habit	Hard- ness of the Soap	Las t Long- er	Newly Intro- duced Brand	Others' Opinion	Price	Reaction/ Sensi- tivity to Skin
Achievement	L0-	02	LO-	69	03	-01	90-	05	105	-05
Deference	- 04	90	-01	20	-02	04	- 04	08	-03	-05
Order	00	02	-02	05	05	90	-0-	90	± 05	03
Exhibition	00-	04	-02	05,	04	94	-04	90	-01	20
Autonomy	- 04	40	-04	03	03	-01	90-	03	-05	03
Affiliation	00	90	01	03	03	03	90-	40	105	101
Intraception	-05	0	-01	05	02	05	-05	05	105	05
Secourance	- 04	01	0.5	⁷ 04	05	01	-03	80	40-	<u>1</u> 01
Domin ance	- 02	03	00	03	90	02	103	04	- 02	03
Abasement	-05	03	-0-	80	02	01	01	20	-05	
Nurturance	LO-	03	- 02	04	01	02	90	. 40	-05	04
Ch an ge	1 04	05	-04	04	90	03	-01	03	LO-	3 01
Endurance	-03	03	* 05	04	03	04	1 04	03	- 04	00
Heterosexuality	105	03	-03	05	05	03	-02	20	-03	01
Aggression	-04	60	- 02	40	03	04	-03	20	+ 04	03
										Company of the control of the contro

Significant Level 0.01**

TABLE No. 5:4

Multiple Correlation Coefficient Between EPPS Needs
and Product Preference Scores According to Community.

PRODUCT GROUP - II TOOTH PASTE

A	ttributes	Product 1	Preference GU
1.	Feel fresh	0.30	0.30
2.	Flavour	0.29	0.28
3.	Foam/lather	0.25	0.30
4.	Formula/Content	0.30	0.33*
5.	Germicidal/Medicinal	0.34	0.23
6.	Habit	0.33	0.27
7.	Newly introduced brand	0.29	0.28
8.	Others' Opinion	0.28	0.20
9.	Price	0.26	0.23
10.	Taste	0.24	0.29

Significant Level 0.01 **

0.05 *

MH = Maharashtrians

GU = Gujarati

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PRODUCT GROUP - II - TOOTH PASTE

Partial Correlation Coefficients Between Attributes and EPPS Needs among

MAHARASHTIRIAN

- EPS	Feel Fresh	Flavour	Foamm/ Lather	Formula/ Content	Germi- cidal/ Medici -nal	Habit	Newly Intro- duced Brand	Others' Opinion	Price	Taste
Achievement	L0-	• 60•	90	60-	01	-05	- 03	02	00 -	02
Deference	80-	90-	05	 	10	02	04	04	01	-03
Order	105	801	80	L07	05	0	101	01	05	101
Exhibition	705	90-	07	60	04	01	90	90	01	-01
Autonomy	40-	- 04	0,5	900	-02	-03	04	05	8	-02
Affiliation	LO-	90-	90	112	- 02	-03	01	20	-04	-02
Trtraception	<u>-07</u>	80.	20	60	101	02	63	63	, 40-	04
Succourance	60-	<u>1</u> .	03	60-	-04	02	90	90	-01	-03
Dominance	-10	12	00-	-13	00-	<u>-07</u>	-01	01	01	02
Ab asemen t	LO-	-07	01	7	-01	-05	05	20	05	- 02
Nurturance	-05	90-	20	-07	04	02	01	02	90	03
Ch ange	60-	010	05	100	00-	90-	00	01	00	-02
Endurance	<u>-0</u>	90-	05	7	03	-03	00	03	- 02	00
Heterosexuality	90-	LO-	90	60-	, 00	-05	03	02	01	00
Aggression	90-	80-	0.7	110	01	101	03	02	03	00

Significant Level 0.01**

TABLE NO. SE

PRODUCT GROUP - II - TOOTH PASTE

Partial Correlation Coefficients Between Attributes and EPPS Needs among GUJ ARATI

Untillines and the second seco					Germi		Newly				
EPPS	Feel Fresh	Flavour	Foam. / Lather	Formula/ Content	cidal/ Wedici -nal	Habit	Intro- duced Brand	Others' Opinion	Price	Taste	
Ach i evement	63	-03	- 02	-03	60	12	0.1	03	90-	03	
Deference	10	03	00	000	90	18	03	90	-03	20	
Order		001	02	01	60	13	05	03	-02	05	
Exhibition	9	40	05	00		16	03	02	-01	20	
Autonomy	20	-61	01	-03	20	16	00-	02	-05	. 50	•
Affili ation	90	05	02	-03	90	17	01	00	-04	90	
Intraception	90 .	10	0	-01	20	14	01	02	-04	20	
Succourance	90	-01	-04	90-	03	14	63	. 03	-05	04	
Dominance	60	- 02	01	02	08	14	01	02	+03	05	
Abasement	20	-03	001	-02	90	1	05	0.5	90-	01	
Nurturance	20	00	ृ	103	20	15	- 02	00	90-	08	
Ch ange	60	-01	. 20	-01	05	13	03	02	-05	20	
Endurance	20	01	02	0.1	90	17	00-	.00	-03	03	
Heterosexuality	20	- - - -	-01	-03	05	14	02	03	-03	03	
Aggression	60	05	-01	-02	04	14	03	05	- 04	05	

Significant Level 0.01**

TABLE NO. 5.3

PRODUCT GROUP -III - FACE/TALCUM POWDER

Multiple Correlation Coefficient Between EPPS Needs and Product Preference Scores According to Community

	Attributes	Product Produc	reference GU
1.	Attractive Container	0.25	0.28
2.	Display of brands	0.17	0.23
3.	Fragrance	0.35*	0.36**
4.	Imparts freshness/refreshing	0.33	0.30
5.	Habit	0.30	0.25
6.	Naturality	0.32	0 .3 3*
7.	Newly introduced brand	0.19	0.29
8.	Others' opinion	0.30	0.29
9.	Price	0.23	0.24
10.	Smoothness	0.25	0.34**
			•

Significant Level 0.01 **

0.05 *

MH = Maharashtrians

GU = Gujarati

2.5

TABLE NO. S. 8

PRODUCT GROUP - III FACE/TALCUM POWDER

Partial Correlation Coefficient Between Attributes and FPPS Needs among

MAHARASHTRIAN

Saa	Attrac- tive contain	Display of Brands	Fragra- nce	Imparts Fresh- ness/ Refre- shing	Habit	Natura -lity	Newly intro- duced Brand	Others' Opinion	Price	Smoo- thness Te
Achievement	-11	-01	05	<u>7</u> ※	-04	03	-03	5	- 04	-05
Deference	1 2	-01	-03	.80	02	90	-01	्	90	- 03
Order	110	03	80		-01	01	40-	05	00	-03
Exhibition	-12	02	05	60	-03	03	01	08	103	-02
Autonomy	60-	05	05	60	. 90-	00	- 02	01	- 04	<u>-07</u>
Affiliation	-10	01	00-	90	-03	03	01	05	- 08	-10
Intraception	112	01	02	05	-03	01	- 02	03	<u>-</u> 07	901
Succourance	80-	02	705	05	-02	03	02	05	- 04	-05
Dominance	60-1	04	01	20	90-	-@1	-03	0.5	-01	<u>-07</u>
Abasement	80-	00	01	80	- 04	03	01	08	-05 505	- 04
Nurturance	-12	02	10	60	-01	05	-02	01	0	- 04
Change	-10	00	03	12	-04	01	-03	-02	- 04	90-
Endurance	*41-	ि	01	11	-05	90	00	02	LO-	103
Heterosexuality	80-	01	04	90	-07	00-	00	90	-05	-05
Aggression	-10	,00	04	80	-05	00-	-01	03	- 04	-05
			Significant	cant Level	1 0.01**	* *				

TABLE NO. S.

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PRODUCT GROUP - III - FACE/TALCUM POWDER

Partial Correlation Coefficient Between Attributes and FFPS Needs among

GUJ ARATI

EPPS	Attra- ctive Cont-	Dis- play of Brands	Fragra	Imparts Fresh- ness/ Refre- shing	Habit	Natura- lity	Newly intro- duced Brand	Others' Opinion	Price	Smooth
Achievement	-03	0.5	00	20	-01	-03	- 06	01	-03	-02
Deference	00	80	90	13*	05	02	- 04	03	-04	0.7
Order	00-	65	90	12 ·	-01	01	103	.05	± 01	01
Exhibition	02	08	60	10	03	02	-03	-01	6	03
Autonomy	-03	40	05	12	-01	00	.60	-03	-05	-01
Affiliation	03	C-7	63	90	05	705	-03	102	-03	02
Intraception	-03	02	03	60	01	00	90	10	-05	- 02
Succourance	02	05	02	90	01	+0+	- 04	. £0	-04	-04
Dominance	.02	90	<i>L</i> 0	-	-61	01	-05	01	-02	02
Abasement	-01	20	04	80	0	-03	-03	01	90-	01
Nurturance	-02	04	05	12	-05	00-	80-	-03	-04	03
Ch an ge	<u>-</u> 02	90	60	13*	00	02	-03	00	-04	00
Endurance,	01	90	. 60	. 60	02	101	-05	- 04	-03	01
Heterosexuality	-02	90	04	60	00-	-03	-05	01	-03	00-
Agression	00	20	00-	80	00	- 04	-03	ဝို	- 04	04

Significant Level 0.01**

TABLE NO. 5:10

PRODUCT GROUP -IV - DRESS MATERIAL/CLOTH

Multiple Correlation Coefficient Between EPPS Needs and Product Preference Scores According to Community.

**********		Product	Preference
	Attributes	MH	GÜ
1.	Dark colour	0.29	0.32
2.	Different types for different weather conditions	0.32	0.36**
3.	Feel heavy while wearing	0.24	0.25
4.	Feel of the cloth	0.31	0.33*
5.	Latest/new type of material	0.27	0.38 **
6.	Others' opinion	0.22	0.31*
7.	Price	0.30	0.25
8.	Sober/light colour	0.35	* 0.29
9.	Sober design/plain	0.36	* 0 .1 9
10.	Type of fabric	0.28	0.29

Significant Level 0.01 **

0.05 *

MH = Maharashtrians

GU = Gujarati

TABLE NO. 5:14

PRODUCT GROUP - IV - DRESS MATERIAL/CLOTH

Partial Correlation Coefficient Between Attributes and EPPS Needs among

MAHARASHTRIAN

S बत्य	Dark	Diff. Types for Diff. Whether Conditions	Feel Heavy While Wear- ing	Feel of the Cloth	Latest/ New Type of Materi- al	Others' Opinion	Price	Sober/ Light Colo- ur	Sober Design/ Flain	Type of Fabric.
Achievement	-01	LO-	90-	101		-03	90		9	01
Deference	9	-05	8 9	90-	101	90:	05	20	-02	- 02
Order	01	101	-02	-05	05	- 08	10	12	94	63
Exhibition	05	-07	- 04	-05	05	-04	03	05	-05	01
Autonomy	0.5	601	-03	901	03	-05	90	05	02	1 02
Affiliation	05	-13	80-	07	01	5	04	. 90	-03	-03
Intraception	02	601	-03	90-	03	- 02	00	05	-02	- 02
Succourance	02	8001	02	07	00	404	01	90	-01	-03
Dominance	-03	60-	-03	60-	01	-05	90	90	-01	- 08
Abasement	02	-12	-03	L 0-	05	-03	05	12	00	-03
Nurturance	40	L07	<u>-07</u>	-03	05	60-	80	90	-01	-01
Change	02	-10	- 04	80-	90	LO-	60	10	-04	-02
Endurance	03	90-	105	=	02	-03	03	10	03	-03
Heterosexuality	04	-12	-03	<u>-07</u>	90	-03	04	20	-03	-03
Aggression	60	12	-05	60-	02	90-	04	<i>L</i> 0	-05	-04
And the second the second seco										

TABLE NO. 5.13,

PRODUCT GROUP - IV - DRESS MATERIAL/CLOTH

Partial Correlation Coefficient Between Attributes and FPPS Needs among

GUJARATI

EPPS	Dark	Diff. Types for Diff. Whether Condi-	Feel Heavy While Wear- ing	Feel of the Cloth	Latest/ New Type of Mate- rial	Others' Opinion	Price	Sober/ Light Colo- ur	Sober Design/ Plain	Type of Fabric
Achievement	10	10	05	-03	00	-02	00	90°	LO -	-04
Deference	90	4 0%	90	02	03	02	00	02	-05	- 02
Order	-	72	90	-02	05	00	00	10	-04	- 02
Exhibition	~	***	90	-02	04	02	02	-02	- 04	90-
Autonomy	10	60	02	01	0.	-02	8	105	L 07	101
Affiliation	12	60	90	-01	08	01	01	40-	-05	-03
Intraception	60	20	02	102	000	- 02	-01	901	90-	-04
Succourance	-	90	04	90-	03	90	- 02	- 04	LO-	-05
Dominance	10	13*	05	-02	05	02	01	+ 0 +	-05	00
Abasement	90	12	20	00	01	04	- 04	-03	-05	-03
Nurturance	11	60	05	-01	04	-03	- 02	-03	-05	-03
Change	60	10	04	0.	20	-01	-01	- 02	-05	02
Endurance	10	60	02	-04	02	102	01	40-	- 04	1 02
Heterosexuality	60	80	90	-05	01	02	-01	- 04	90-	- 04
Aggression	20	10	20	-02	05	101	-	-03	-05	705
And the state of t	and a secretary of the second					-				

Significant Level 0.01 ** 0.05 *

PRODUCT GROUP - I - TOILET SOAP

Multiple Correlation Coefficient Between EPPS Needs

and Product Preference Scores According to Sex.

A t	tributes	Product Pr Male	reference Female
1.	Foam/Lather	0.29	0.32
2.	Imparts freshness	0.18	0.27
3.	Germicidal/Medicinal	0.30	0.36*
4.	Habit	0.18	0.33
5.	Hardness of the Soap	0.25	0.29
6.	Lasts longer	0.26	0.27
7.	Newly introduced brand	0.28	0.33
8.	Others' Opinion	0.28	0.31
9.	Price	0.17	0.32
10.	Reaction/Sensitivity to skin	0.21	0.35*

Significant Level 0.01**

0.05*

MH = Maharashtrians

GU = Gujarati

TABLE NO. 5.14

Partial Correlation Coefficients Between Attributes and APPS Needs Among

끸	1
7	1
Ž	-

SPP.S	Foam: Lather	Imparts Fresh. Ness	Germi- cidal/ Medici -nal	Habit	Hard- ness of the Soap	Lasts Long- er	Newly Intro- duced Brand	Others' Opinion	Frice	Reaction/ Sensiti- vity to Skin
Achievement	L0 -	03	-03	40-	14	20	01	L0=	-02	-04
Deference	105	02	03	-02	7	80	05	-05	- 02	00-
Order	101	01	03	-02	172	11	08	- 04	-02	- 02
Exhibition	102	00-	03	-03		12	20	40-	-01	01
Autonomy	- 04	01	-02	40-	-12	05	90	90-	-03	-02
Affiliation	00	02	04	-05	-14	90	90	-03	-04	103
Intraception	+ 0 -	101	2	40-	in Fi	10	03	- 04	-05	-01
Succourance	- 04	00	8	1 02	7	20	20	-01	4 02	F 0
Dominance	-05	-01	03	-0 5	-07	10	20	-05	- 02	01
Abasement	90-	01	0	5	1 7	60	90	-02	40-	- 02
Nurturance	80-	01	05	-05	-	10	02	60-	-02	02
Ch an ge	90-	02	-01	-02	10	10	04	80-	-03	-03
Andurance	•05	03	-02	-05	12	90	90	-05	-03	00
Heterosexuality	90-	01	02	-04	-12	90	90	-03	-03	-01
Aggression	105	00	00	-05	173	60	90	-03	-01	-02

Significant Level 0.01**

TABLE NO. 5'15

PRODUCT GROUP - I - TOILET SOAP

Partial Correlation Coefficients Between Attributes and EPPS Needs Among

FEMALE

	Foam: Lather	Imparts Fresh- ness	Germi- cidal/ Medici- nal	Habit	Hard- ness of the Soap	Lasts Long- er	Newly Intro- duced Brand	Others' Opinion	Price	Reaction/ Sensi- tivity to Skin
Achievement	177	-03	-10	-01	10	40-	7	*_	- 04	0.7
Deference -C	- 04	£03	-03	04	02	03	10	15*	-03	80
Order -(-01	-02	90-	-02	60	02	7	ار *	-02	63
Exhibition -C	- 02	-02	90-	101	08	-03	-11	* 41	01	80
Autonomy C	-07	- 02	- 08	8	90	00-	•16	12	-04	90
Affiliation -(-03	- 05	-03	-03	90	-01	-12	Ξ	* 08	101
Intraception (-(-07	-03	- 04	00	90	01	-13	-	-04	60
Succourance -(-05	-03	- 04	101	10	5	90-	* 41	-05	02
Dominance -(- 08	-02	- 04	-03	12	-02	-12	ا ا	00-	05
Abasement -(-07	- 02	- 04	90	80	-03	-05	. 91	-03	05
Nurturance	60-	00	7	02	20	-01	-13	16	-03	20
Change -C	90-	0.1	90-	-05	60	- 02	80-	10	- 08	- 02
Endurance -(-04	00	-04	00	10	02	-12	12	- 02	90
Heterosexuality (-03	01	- -	90	12	03	60 -	* ©	-01	04
Aggression(-04	05	- 02	01	90	00	60-	ب *	90-	03

Significant Level 0.01**

TABLE NO. 5:16

PRODUCT GROUP -II - TOOTH PASTE

Multiple Correlation Coefficient Between EPPS Needs

and Product Preference Scores According to Sex.

	Attributes	Product Male	Preference Female
1.	Feel fresh	0.33*	0.20
2.	Flavour	0.25	0.26
3.	Foam/Lather	0.30	0.26
4.	Formula/Content	0.24	0.34
5.	Germicidal/Medicinal	0.25	0.33
6.	Habit	0.24	0.33
7.	Newly introduced brand	0.33*	0.27
8.	Others' opinion	0.26	0.25
9.	Price	0.21	0.26
10.	Taste	0.26	0.27
	1		

Significant Level 0.01**

0.05*

MH = Maharashtrians

GU = Gujarati.

PRODUCT GROUP - II - TOOTH PASTE

Partial Correlation Coefficient Between Attributes and FPPS Needs among

P.HMALE

S. C.A.	Feel Fresh	Flavour	Foam/ Lather	Formula/ Content	Germi- cidal/ Medi- cinal	Habit	Newly Intro- duced Brand	Others' Opinion	Price	faste
Achievement	<u>-07</u>	=	10	7	02	60	- 04	10	102	04
Deference	-05	105	- 04	80	05	*71	90-	13*	01	90
Order	-03	-10	LO-	80-	20	08.	40-	08	01	90
Exhibition	<u>-0</u>	90-	+04	12	05	<u></u>	90.	-	05	02
Autonomy	- 04	110	1 08	-10	05	ام ا	10-	12	-01	04
Affiliation	-03	-05	102	-1 3*	05	15*	- 04	20	-01	04
Intraception	90-	F	L 0-	7	07	in Lan	L 0-	20	01	07
Succourance	-03	112	110	* 41-	00	20	101	60	-02	05
Dominance	- 04	-12	60-	08	20	60	90-	60	-01	80
Abasement	-02	-10	<u>-07</u>	10	90	12	00-	1	-01	-01
Nurturance	809	60-	10	-	04		-08	7	-02	04
Ch an ge	-05	7	- 07	10	05	04	- 04	20	-04	20
Endurance	- 04	110	90-	60-	04	12	007	20	01	03
Heterosexuality	- 04	LO-	60-	*71-	-01	-	105		01	05
Aggression	-04	90-	L 0-	1 2	04	-	-05	.08	-03	05

Significant Level 0.01 ** 0.05 *

TABLE NO. 5.19

PRODUCT GROUP - III - FACE/TALCUM POWDER

Multiple Correlation Coefficient Between EPPS Needs
and Product Preference Scores According to Sex.

	A	Product	Preference
	Attributes	Male	Female
1.	Attractive Container	0.22	0.30
2.	Display of brands	0.21	0.25
3.	Fragrance	0.28	0.31
4.	Imparts freshness/refreshing	0.29	0.31
5.	Habit	0.22	0.36*
6.	Naturality	0.31	* 0.34
7.	Newly introduced brand	0.28	0.21
8.	Others' opinion	0.23	0.29
9.	Price	0.24	0.28
10.	$S_{ ext{moothness}}$	0.26	0.28

Significant Level 0.01**

0.05*

MH = Maharashtrians

GU = Gujarati

TABLE NO. 5.20

PRODUCT GROUP - III - FACE/TALCUM POWDER

Partial Correlation Coefficient Between Attributes and FPPS Needs among

MALE

RPS	Attra- ctive Cont- ainer	Dis- play of Brands	Fragr- ance	Imparts Fresh- ness/ Refre-	Habit	Natura- lity	Newly Intro- duced Brand	Others' Opinion	Price	Smooth -ness
Achievement	90-	-03	80	18**	00	10	= 08	-03	90-	-01
Deference	- 05	00	04	17年本	0.5	10	105	705	90-	04
Order	- 04	00-	10	47.8%	03	60	90-	-01	-03	-01
Exhibition	-03	02	08	*91	02	-	-03	-03	-05	04
Autonomy	-03	02	60	4 %	02	10	80-	90-	-05	- 02
Affili ation	- 02	01	05	13*	02	60	•05	-01	90-	101
Intraception	90	1 02	05	13*	01	60	<u>-</u> 07	-02	80-	00-
Succourance	-0	-01	04	13*	04	60	±03	-01	90-	-61
Dominance	-03	5	20	という。	00	10	L 07	102	-04	-01
Abasement	+ 0 -	01	05	*41	01	60	404	-01	80-	01
Nurturance	LO-	-02	60	**81	04		10	90-	- 04	Φ3
Change	-05	01	10	**61	03	10	90-	- 04	-05	0
Endurance	-03	00-	20	18**	03	13*	-05	-05	90-	03
Heterosexuality	-05	-02	08	16*	02	80	-07	-03	90-	00
Aggression	-03	01	05	15率	00	05	-05	4 02	- 04	02

Significant Level 0.01**

PRODUCT GROUP - III - FACE/TALCUM POWDER

Partial Correlation Coefficient Between Attributes and EPPS Needs among

FEMALE

				, -1 						
	Attra- ctive Conta- iner	Dis- play of Brand	Frag.	impartes Fresh- ness/ Refre- shing	Habit	Natu- rality	Newly Intro- duced Brand	Others' Opinion	Price	Smooth ness
Achievement	60-	60	-04	05	001	60 -	00	L0	01	-05
Deference	8 0 -	20	<u>-</u> @	07	60	05	001	08	-05	101
Order	-04	01 ,	00	60	705	- 04	-01	60	03	50
Exhibition	80-7	08	05	05	0.5	1 02	- 02	08	03	105
Autonomy	1	05	0-	08	-02	<u>-07</u>	-05.	04	-03	LO-
Affiliation	60-	90	-02	03	05	L 0-	02	02	-03	90-
Intraception	-12	05	103	03	94	90-	-02	05	00	-08
Succourance	90-	05	103	5	10	601	-01	60	-01	- 08
Dominance	-05	60	- 02	90	0	<u>-07</u>	-02	80	03	-04
Abasement	- 08	60	00	04	05	10-	00-	60	-01	-03
Nurturance	901	80	02	. 70	-03	-04	-02	<i>L</i> 0	-01	-03
Change	60 1	05	04	80	-03	-03	0	90	-02	-05
Endurance		20	- 04	04	0.	800	- 02	03	00	90-
Heterosexuality	-05	12	-01	05	05	80.	5	10	03	LO-
Aggression	. 40-	20	-03	90	04	-03	00	04	-03	-03
The state of the s		And the second s	Sig	Significant	Level	0.01 * 0.05 *				

TABLE NO. 5.22

PRODUCT GROUP -IV - DRESS MATERIAL/CLOTH

Multiple Correlation Coefficient Between EPPS Needs
and Product Preference Scores According to Sex.

	Attributes	Product Male	Preference Female
1.	Dark colour	0.25	0.35*
2.	Different types for different weather conditions.	0.29	0.37*
3.	Feel heavy while wearing	0.20	0.29
4.	Feel of the cloth	0.24	0.30
5.	Latest/New type of material	0.23	0.33
6.	Others' Opinion	0.30	0.30
7.	Price	0.23	0.32
8.	Sober/Light colour	₀.3 1 *	0.28
9.	Sober design/plain	0.23	0.25
10.	Type of fabric	0.19	0.30

Significant Level 0.01 **
0.05 *

MH = Maharashtrians

GU = Gujarati.

PRODUCT GROUP - IV - DRESS MATERIAL/CLOTH

Partial Correlation Coefficient Between Attributes and APPS Needs among MALE

RPS	Dark Colour	Diff. Types for Diff. Whether Condi-	Feel Heavy While Wear-	Feel of the Cloth	Latest/ New Type of Mate- rial	Others' Opinion	Frice	Sober/ Light Colo-	Sober/ Design Flain	Type of Fab-
Achievement	03	70	-01	101	90-	-10	01	90	- 02	-01
Deference	01	10	8	-02	-03	80-	01	07		- 02
Order	03	60	03	-02	-01	7	03	60	-01	-01
Exhibition	05	10	02	04	00	08	- 01	90		00-
Autonomy	07		01	-02	90-	-13*	01	03	-02	00-
Affiliation	90	05	00-	-05	-03	809	-01	04	-03	-01
Intraception	02	90	00-	-05	-04	- 08	-01	04	- 04	00-
Succourance	04	96	-03	-05	103	-05	-03	05	-05	-02
Dominance	03	20	00	90-	- 04	0 10	-03	04	- 04	-01
Ab asement	02	05	02	-05	- 04	80.	-02	08	-04	-03
Nurturance	05	60	05	102	103	-13*	02	90	-02	01
Change	03	08	04	-02	-01	<u></u>	03	10	- 04	01
Endurance	90	10	5	-07	-03	60-	00-	. 08	00-	02
Heterosexuality	04	90	0	-05	-03	80	-01	LO-	-02	-01
Aggression	05	20	03	- 04	-02	- 08	-01	- 07	104	00-
	AND THE PERSON NAMED IN COLUMN	services and an experience of the decision of the services of				de la company de	***************************************			

* Significant Level 0.01 ** 0.05 *

TABLE NO. 5.24

PRODUCT GROUP - IV. - DRESS MATERIAL/CLOTH

Partial Correlation Coefficient Between Attributes and EPPS Needs among FEMALE

S वरा	Dark Colour	Diff. Types for Diff. Whether Condi-	Feel Heavy While Wear-	Feel of the Cloth	Latest/ New Type of Mate- rial	Others' Opinion	Price.	Sober/ Light Col-	Sober/ Design Flain	Type of Fab.
Achievement	07	-01	-01	-03	. 50	90	10	- 02	L0 -	05
$\mathtt{D_eference}$	40	03	40-	-01	03	05	20	04		04
Order	60	105	-01	-03	08	05	90	02		05
Exhibition	60	-01	05	101	04	90	08	-02	-04	-02
Autonomy	20	-02	-03	-01	02	90	08	0		90-
Affili ation	60	-04	- 02	-03	08	90	20	-02		00-
Intraception	90	108	-02	-02	02	01	04	-05	90-	.01
Succourance	10	-05	01	-10	03	20		- 04	90-	0.
Dominance	04	01	01	-03	08	08	. 30	-01	-	-01
Abasement	04	00-	01	01	90	10	60	-01	-03	-05
Nurturance	07	90-	90-	-02	60	04	04	-01	-	-03
Change	08	- 05	-05	-01	-	04	0.7	-01	-05	05
Endurance	90	-05	-03	-04	04	80	-08	-03		00
Heterosexuality	.80	90-	,	- 04	96		90-	-03	90-	04
Aggression	02	-07	- 04	-02	90	-01	01	-02	20-	01

Significant Level 0.01**