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#### **ABSTRACT**

The research investigates the influence of demographic variables on consumer buying Behaviour towards green cosmetic products, focusing specifically on the rising trend of eco-friendly alternatives within the cosmetics sector. Green cosmetics, widely perceived as environmentally sustainable and health-conscious choices, are becoming increasingly popular among consumers. These products typically feature natural ingredients, biodegradable packaging, and minimal use of harmful chemicals, aligning with the growing global emphasis on sustainability and personal well-being. This study specifically examines how demographic variables such as age, gender, education level, occupation, income, and marital status shape consumer preferences and purchasing decisions regarding green cosmetics. The research was conducted in Agra, India – a rapidly urbanizing city where awareness about environmental issues and health consciousness is notably increasing among consumers. Data collection involved structured questionnaires administered to 600 women consumers across diverse demographic segments in Agra. The questionnaire gathered detailed information about respondents' demographic profiles, their preferences for green cosmetic products, their awareness of environmental and health risks associated with conventional cosmetics, and factors influencing their purchasing decisions. The findings from this study highlight significant variations in consumer Behaviour based on demographic characteristics. Age emerged as a critical factor influencing preferences for green cosmetics. Younger consumers (below 25 years) demonstrated strong preferences for products offering skin health benefits such as acne prevention, protection from UV rays, and avoidance of harmful chemicals. Middle-aged consumers (25-40 years) exhibited balanced preferences between skincare benefits and beauty enhancement features. In contrast, older consumers (40-55 years) predominantly prioritized products that enhance appearance and reduce visible signs of aging. In conclusion, understanding how demographic factors shape consumer Behaviour is crucial for effectively positioning green cosmetic products within competitive markets like Agra's rapidly urbanizing environment. As consumer awareness about environmental sustainability continues rising globally-including within India's expanding middle-class segment - green cosmetics are expected to become increasingly mainstream choices among diverse consumer

**KEYWORDS:** Consumer Buying Behaviour, Green Cosmetics, Demographic Variables, Age Groups, Gender Influence

#### 1. INTRODUCTION

In recent years, there has been a significant global shift towards sustainable consumption practices. This growing trend reflects heightened consumer awareness regarding environmental degradation and the health risks associated with conventional cosmetic products. Traditional cosmetics often contain synthetic chemicals, preservatives, and artificial additives that pose potential threats to both human health and the natural environment. Consequently, green cosmetics—products formulated primarily from natural ingredients, devoid of harmful chemicals, and produced through environmentally friendly processes—have emerged as increasingly popular alternatives. These products are perceived by consumers as safer, healthier, and more sustainable choices compared to conventional counterparts.

Green cosmetics typically include biodegradable packaging<sup>1</sup>, cruelty-free testing methods, and ingredients sourced sustainably or organically. They are designed to minimize negative environmental impacts throughout their lifecycle—from sourcing raw materials and manufacturing processes to product use and disposal. This holistic approach aligns closely with the principles of environmental sustainability and responsible consumerism that have gained prominence globally over the past decade.

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In India, particularly in urban areas such as Agra, the adoption of green cosmetics among women consumers has notably increased. Agra represents a rapidly urbanizing metropolis characterized by rising disposable incomes, higher education levels, increased exposure to global trends through digital media platforms, and growing concerns about personal health and environmental sustainability. Women consumers in Agra are becoming more discerning about their purchasing decisions, actively seeking products that align with their personal values related to health consciousness and ecological responsibility.

Several factors contribute to this increasing adoption of green cosmetics among women in urban India. Firstly, heightened awareness about environmental issues—including pollution levels in metropolitan cities like Agra—has made consumers more conscious of their ecological footprint. Secondly, rising health consciousness has led individuals to scrutinize product ingredients carefully before making purchasing decisions<sup>2</sup>. Consumers are increasingly wary of synthetic chemicals present in traditional cosmetics due to potential adverse effects such as allergies or long-term skin damage.

Thirdly, demographic variables significantly influence consumer preferences for green cosmetics. Age groups exhibit distinct preferences based on life-stage priorities; younger consumers (below 25 years) often prioritize skin health benefits like acne prevention or protection from harmful UV rays while middle-aged individuals (25-40 years) balance skincare benefits with beauty enhancement features. Older consumers (40-55 years), meanwhile, predominantly seek products offering anti-aging properties or appearance enhancement benefits.

Educational attainment also plays a critical role; highly educated women demonstrate greater awareness regarding environmental concerns<sup>3</sup> and thus exhibit stronger preferences for eco-friendly cosmetic products compared to less-educated segments. Higher education correlates positively with increased knowledge about the harmful effects associated with conventional cosmetics—leading educated consumers toward informed choices favoring green alternatives.

Income level is another crucial determinant influencing consumer Behaviour towards green cosmetics in Agra's urban market context. Women belonging to higher-income groups possess greater purchasing power enabling them to afford premium-priced eco-friendly cosmetic options readily available within niche market segments catering specifically toward environmentally conscious buyers. Conversely, lower-income groups remain price-sensitive due primarily to affordability constraints limiting access predominantly toward conventional cosmetic offerings unless competitively priced sustainable alternatives become accessible at affordable price points.

Marital status further differentiates consumer preferences distinctly: married women typically prioritize beauty-enhancing cosmetic products reflecting societal expectations associated with marital roles<sup>4</sup> whereas single women emphasize skincare-focused items aimed at maintaining overall skin health or addressing specific dermatological concerns such as blemishes or sun exposure protection.

Occupation also influences exposure levels regarding product information: employed women occupying professional roles tend toward greater familiarity with sustainability concepts due largely through workplace interactions emphasizing corporate social responsibility initiatives alongside extensive digital media engagement providing continuous updates related specifically toward emerging trends within the sustainability domain including personal care sectors like cosmetics.

Understanding these demographic factors shaping consumer Behaviour is essential for marketers aiming effectively target specific segments within Agra's diverse female population base adopting green cosmetic solutions increasingly prevalent across various socio-economic strata throughout India's expanding middle-class segment characterized prominently by evolving aspirations prioritizing quality lifestyle choices encompassing both personal wellbeing alongside ecological stewardship commitments simultaneously integrated seamlessly within daily consumption patterns practiced routinely amongst contemporary urban Indian households today.

#### 2. RESEARCH OBJECTIVES

This study aims to comprehensively investigate and analyze the influence of demographic variables on consumer buying Behaviour towards green cosmetics, particularly within the context of Agra, India<sup>5</sup>. Specifically, the research seeks to examine how demographic factors such as age, gender, education level, occupation, income, and marital status affect consumer attitudes and purchasing decisions related to green cosmetic products. By identifying and analyzing these demographic influences, the study intends to provide a detailed understanding of consumer segments that are most receptive to green cosmetics.

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Additionally, the research aims to clearly identify how these demographic factors align with consumer preferences for green products<sup>6</sup>. This involves exploring whether certain demographic groups exhibit stronger preferences or greater willingness to purchase environmentally friendly cosmetic alternatives compared to others. The alignment between demographic characteristics and consumer preferences will be studied in depth to determine patterns and trends that marketers can leverage in their strategic planning.

Furthermore, this study seeks to assess the relationship between consumer Behaviour towards green cosmetics and their awareness of environmental and health risks associated with traditional cosmetic products. The research will explore whether consumers who demonstrate higher levels of awareness regarding the potential negative impacts of conventional cosmetics on personal health and the environment are more inclined towards purchasing green alternatives. This objective involves examining consumers' knowledge about harmful ingredients commonly found in traditional cosmetics, their perceptions regarding associated health risks, and their understanding of environmental degradation linked to conventional cosmetic production processes.

Moreover, this study intends to investigate the perceived benefits of green cosmetics among different consumer segments based on their demographic profiles<sup>7</sup>. It will explore how various groups perceive advantages such as improved personal health outcomes, reduced environmental impact, product safety, natural ingredient composition, and ethical considerations like cruelty-free testing. By analyzing these perceived benefits across diverse demographic categories—including age groups, education levels, income brackets, occupations, gender identities, and marital statuses—the research aims to understand which specific benefits resonate most strongly within each segment.

By addressing these objectives comprehensively through empirical data collection from structured questionnaires administered among 600 women consumers in Agra, this study will provide valuable insights into the complex interplay between demographic variables and consumer buying Behaviour towards green cosmetics. The findings will offer practical implications for marketers aiming to effectively target specific consumer segments by aligning their product offerings and marketing strategies with identified preferences and perceptions.

Ultimately, this research will contribute significantly towards enhancing understanding about the role played by demographic factors in shaping consumer attitudes towards sustainable consumption practices within India's rapidly evolving urban market context<sup>8</sup>. The insights generated from this study can help businesses better position their green cosmetic products by highlighting relevant benefits tailored specifically according to distinct demographic profiles identified through rigorous analysis.

#### 3. CONCEPT OF GREEN COSMETICS

Green cosmetics are defined as beauty and personal care products that are designed to minimize environmental impact while reducing health risks compared to conventional alternatives. These products are typically formulated using natural ingredients, free from synthetic chemicals, and produced through environmentally friendly processes. Unlike traditional cosmetics, green cosmetics often employ biodegradable packaging, cruelty-free testing methods, and sustainable sourcing of raw materials. They aim to address consumer concerns about the harmful effects of conventional products on both personal health and the environment.

Green cosmetics are part of a broader movement towards sustainable consumption, driven by increasing awareness of environmental degradation and the health risks posed by synthetic chemicals in traditional products. These products align with the principles of sustainability by ensuring minimal harm throughout their lifecyclespanning production, usage, and disposal. As a result, they are increasingly sought after by consumers who prioritize eco-consciousness and personal well-being.

# **Demographic Variables Influencing Consumer Behaviour**

Demographic variables play a crucial role in shaping consumer attitudes and Behaviours toward green cosmetics. These variables influence preferences, purchasing decisions, and willingness to adopt environmentally friendly alternatives. The following are key demographic factors that impact consumer Behaviour:

Age is a significant factor influencing consumer preferences for green cosmetics. Younger consumers, particularly those below 35 years of age, tend to exhibit higher levels of environmental consciousness<sup>9</sup>. This demographic is more inclined to purchase eco-friendly products due to their awareness of sustainability issues and their desire to make socially responsible choices. On the other hand, older consumers often prioritize product efficacy and quality over environmental considerations but may still opt for green cosmetics if they perceive health benefits.



Volume: 12 | Issue:3 | March 2025

#### B. Gender

Gender plays a pivotal role in shaping consumer Behaviour in the cosmetics market. Women are generally more interested in beauty and personal care products than men and show a stronger inclination toward environmentally friendly options<sup>10</sup>. This preference is driven by heightened awareness of product safety, skin health concerns, and a willingness to invest in premium-priced green alternatives that align with their values.

#### C. Education

Education level is directly correlated with awareness about environmental issues and the adoption of green products<sup>11</sup>. Consumers with higher educational attainment are more likely to understand the benefits of ecofriendly cosmetics and make informed purchasing decisions. They tend to value transparency in product labeling, ethical sourcing practices, and the use of natural ingredients.

#### D. Income

Income levels significantly influence purchasing Behaviour toward green cosmetics. Higher-income groups demonstrate greater willingness to pay premium prices for eco-friendly products due to their increased purchasing power<sup>12</sup>. They view green cosmetics as not only healthier options but also as status symbols that reflect their commitment to sustainability.

#### E. Marital Status

Marital status also impacts consumer preferences for green cosmetics. Married women often prioritize beauty enhancement products that cater to societal expectations associated with their roles, while single women tend to focus more on skincare benefits such as sun protection or blemish control.

#### F. Occupation

Occupation influences exposure levels to information about green products. Professionals working in corporate or managerial roles are more likely to be aware of environmental issues through workplace initiatives or media exposure<sup>13</sup>. This group often demonstrates a higher propensity to purchase green cosmetics due to their exposure to sustainability concepts.

The concept of green cosmetics is gaining traction globally as consumers become more conscious of environmental sustainability and personal health risks associated with traditional cosmetic products. Demographic variables such as age, gender, education level, income, marital status, and occupation significantly shape consumer attitudes and Behaviours toward these eco-friendly alternatives. Younger individuals, women, highly educated consumers, higher-income groups, married women seeking beauty enhancement, and professionals exposed to sustainability concepts are among the most receptive segments for green cosmetics.

Understanding these demographic influences is essential for businesses aiming to target specific consumer segments effectively. Tailored marketing strategies that emphasize the unique benefits of green cosmetics—such as health safety, environmental responsibility, and ethical production—can help companies better cater to the evolving preferences of eco-conscious consumers in diverse markets.

#### 4. RESEARCH METHODOLOGY

The study adopted a **descriptive research design** to investigate the influence of demographic variables on consumer buying Behaviour toward green cosmetics<sup>14</sup>. This approach was chosen to provide a detailed and systematic description of the factors shaping consumer preferences and purchasing decisions. The research relied on **primary data collection**, which was conducted through structured questionnaires designed to elicit insights into various aspects of consumer Behaviour.

The structured questionnaire was distributed among **600 women consumers** in Agra, India. The city was chosen as the research site due to its urban demographic diversity and increasing awareness of eco-friendly products among its population. The respondents were selected using a **stratified random sampling technique** to ensure that the sample represented various demographic segments, including age groups, education levels, income brackets, marital statuses, and occupations. This method ensured that the findings would be generalizable across different consumer profiles within the urban context.

The questionnaire was carefully designed to capture several key dimensions of consumer Behaviour:

- A. **Demographic Information**: Data on age, gender, education level, occupation, income, and marital status were collected to analyze their influence on consumer preferences for green cosmetics<sup>15</sup>.
- B. Consumer Preferences: Questions were included to understand the types of green cosmetic products preferred by consumers and the specific attributes (e.g., natural ingredients, eco-friendly packaging) they valued most.
- C. **Awareness Levels**: Respondents were asked about their awareness of environmental and health risks associated with conventional cosmetics and their familiarity with green alternatives<sup>16</sup>.



- D. **Purchase Motivations**: The survey explored factors motivating consumers to purchase green cosmetics, such as health consciousness, environmental concerns, product quality, brand reputation, and price sensitivity<sup>17</sup>.
- E. **Barriers to Adoption**: To gain a holistic understanding, respondents were also asked about potential barriers preventing them from purchasing green cosmetics, such as high prices or lack of availability<sup>18</sup>.

The data collected through these questionnaires were subjected to rigorous analysis using statistical tools to identify patterns and relationships between demographic variables and consumer Behaviour. Techniques such as cross-tabulation, correlation analysis, and regression models were employed to examine how factors like age, education level, and income influenced preferences for green cosmetics.

By employing this methodology, the study aimed to generate actionable insights into the role of demographic factors in shaping consumer Behaviour toward green cosmetics. These findings are expected to provide valuable guidance for marketers and policymakers seeking to promote sustainable consumption practices in urban India.

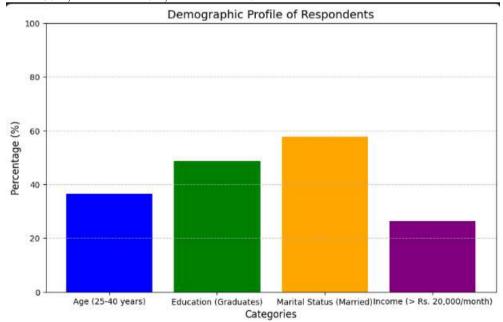
#### 5. DATA ANALYSIS AND FINDINGS

The data analysis section provides insights into the demographic profile of respondents and examines how demographic variables such as age, education, income, marital status, and occupation influence consumer Behaviour toward green cosmetics. The findings are based on responses from 600 women consumers in Agra, India, collected through structured questionnaires.

#### 5.1 Demographic Profile

The demographic analysis revealed the following characteristics of the respondents:

- **Age Distribution**: The majority of respondents (36.5%) were aged between 25-40 years, followed by 31.2% aged up to 25 years and 22.4% aged between 40-55 years.
- **Education Level**: Approximately 48.7% of respondents were graduates, while 27.5% held postgraduate degrees. Around 23.8% had completed high school or lower education.
- Marital Status: About 57.8% of respondents were married, while 42.2% were single.
- **Income Levels**: Around 26.4% earned above Rs. 20,000 monthly; 43.6% fell within the Rs. 10,000–20,000 income bracket; and 30% earned less than Rs. 10,000 monthly.
- Occupation: A significant portion (41%) were employed in professional roles, while homemakers accounted for 35%, students for 18%, and others for 6%.

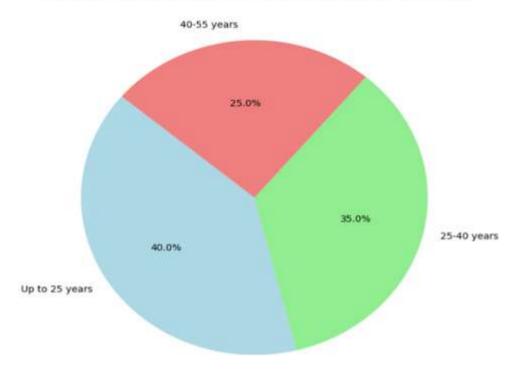


#### 5.2 Influence of Age

Age was found to significantly impact consumer preferences for green cosmetics, with distinct priorities observed across different age groups.



# Influence of Age on Consumer Preferences for Green Cosmetics



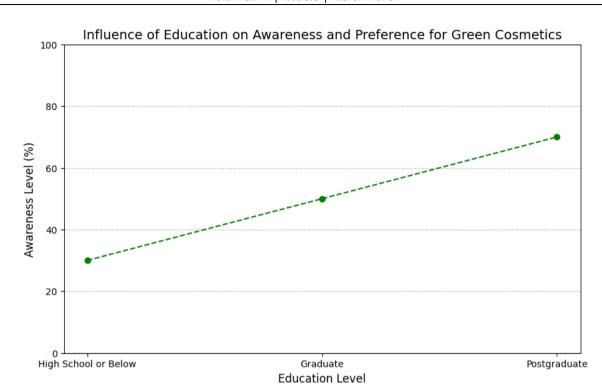
Age Group	Preferences towards Green Cosmetics		
Up to 25 years	Prioritized skin health benefits (e.g., acne prevention, UV protection)		
25-40 years	Balanced focus on skincare and beauty enhancement		
40-55 years	Focused primarily on appearance enhancement and anti-aging benefits		

Consumers aged up to 25 years showed a preference for products that addressed common skin concerns such as acne and sun protection. Middle-aged consumers (25-40 years) balanced their focus between skincare benefits and beauty enhancement features like radiant skin or improved complexion. Older consumers (40-55 years) prioritized anti-aging products and those enhancing overall appearance.

# 5.3 Influence of Education

Education played a pivotal role in shaping awareness and preferences for green cosmetics.

<b>Education Level</b>	Awareness & Preference
Graduate & Postgraduate	High awareness; strong preference for organic/natural ingredients
High School or below	Moderate awareness; price-sensitive

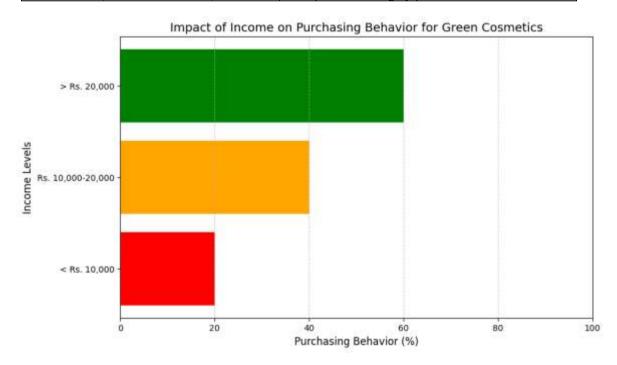


Respondents with higher educational qualifications demonstrated greater awareness about environmental issues and expressed a stronger preference for products containing organic or natural ingredients. Consumers with lower education levels exhibited moderate awareness but were more price-sensitive in their purchasing decisions.

5.4 Impact of Income

Income levels significantly influenced consumers' willingness to pay premium prices for green cosmetics.

Income Level	Purchasing Behaviour
High-income (> Rs. 20,000/month)	Strong preference; willing to pay premium prices
Middle-income(Rs.10,000–20,000/month)	Moderate preference; price-sensitive
Low-income (< Rs. 10,000/month)	Low preference; highly price-sensitive





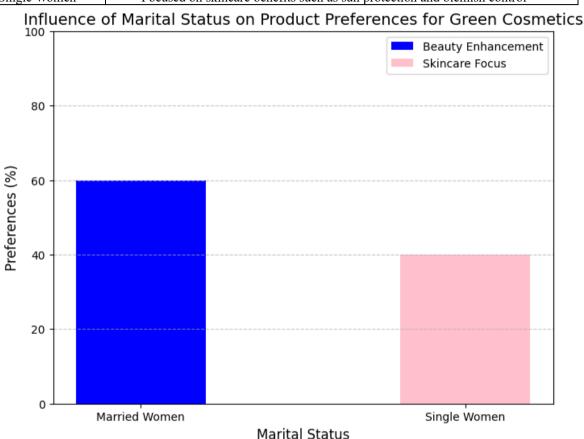
Volume: 12 | Issue:3 | March 2025

Higher-income consumers displayed a strong inclination toward green cosmetics due to their ability to afford premium-priced products that align with their health-conscious values. Middle-income consumers showed moderate interest but were more cautious about pricing, while low-income consumers exhibited limited adoption due to affordability constraints.

# 5.5 Influence of Marital Status

Marital status distinctly influenced product preferences among respondents.

Marital Status	Product Preferences
Married Women	Prioritized beauty enhancement products
Single Women	Focused on skincare benefits such as sun protection and blemish control



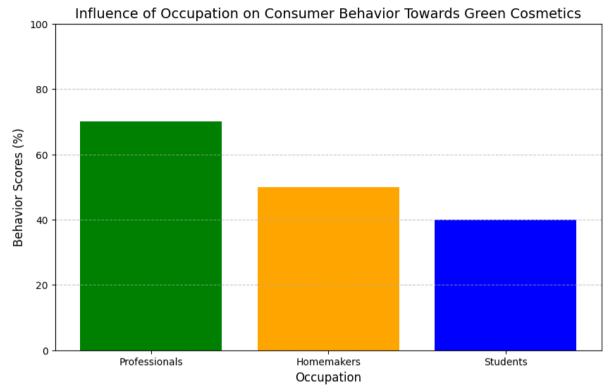
Married women tended to prioritize beauty-enhancing cosmetic products that cater to societal expectations associated with their roles, while single women emphasized skincare-focused items aimed at improving skin health and addressing specific concerns like blemishes or sun damage.

#### 5.6 Influence of Occupation:

Occupation	Consumer Behaviour
Professionals	High awareness about environmental sustainability; strong preference for green cosmetics
Homemakers	Moderate awareness; primarily driven by affordability
Students	Strong preference for trendy eco-friendly products

Occupation emerged as another critical factor influencing consumer Behaviour toward green cosmetics.





Professionals demonstrated higher levels of awareness about sustainability concepts due to workplace exposure and media engagement, making them more inclined toward purchasing green cosmetics. Homemakers were moderately aware but prioritized affordability over other factors. Students showed enthusiasm for trendy eco-friendly products that align with their lifestyle preferences.

#### **Summary of Findings:**

The analysis highlights the significant role demographic variables play in shaping consumer Behaviour toward green cosmetics:

- a. Age influences product priorities—skin health benefits for younger consumers versus anti-aging properties for older groups.
- b. Education enhances environmental awareness and preference for natural ingredients.
- c. Income determines affordability levels and willingness to pay premiums for eco-friendly options.
- d. Marital status affects product choices—beauty enhancement versus skincare focus.
- e. Occupation influences exposure levels to sustainability concepts and drives preferences accordingly. These findings underscore the importance of tailoring marketing strategies to specific demographic segments to effectively promote green cosmetic<sup>19</sup> products in urban markets like Agra's evolving consumer landscape.

#### **Additional Tables**

Distribution of Respondents by Age Group

Age Group	Percentage (%)
Up to 25 years	31.2
25–40 years	36.5
Above 40 years	22.4

**Distribution by Monthly Income** 

Income Bracket	Percentage (%)
Less than Rs. 10,000	30
Rs. 10,000–20,000	43.6
Above Rs. 20,000	26.4

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**Distribution by Occupation** 

Occupation	Percentage (%)	
Professionals	41	
Homemakers	35	
Students	18	
Others	6	

These results provide a clearer understanding of the demographic composition of the sample population and its influence on consumer Behaviour toward green<sup>20</sup> cosmetics in Agra's urban market context.

#### 6. Discussion

The findings from the study confirm that demographic variables play a pivotal role in shaping consumer buying Behaviour toward green cosmetics. These insights are critical for marketers and policymakers aiming to promote sustainable consumption practices effectively. Below is an expanded discussion of the key demographic factors influencing consumer Behaviour:

#### A. Age

Age significantly impacts consumer preferences for green cosmetics. Younger consumers, particularly those under 25 years, exhibit heightened environmental consciousness, often driven by greater exposure to sustainability campaigns through social media and educational institutions. This group prioritizes skin health benefits such as acne prevention and UV protection, aligning their purchases with their health-conscious and eco-friendly values. Middle-aged consumers (25-40 years) balance their focus between skincare benefits and beauty enhancement, reflecting their dual priorities of maintaining skin health while achieving aesthetic goals. Older consumers (40-55 years) primarily prioritize anti-aging products and appearance enhancement, valuing reliability and efficacy over environmental considerations.

#### B. Gender

Gender plays a significant role in influencing consumer Behaviour in the cosmetics market. Women consistently demonstrate stronger preferences for green cosmetics compared to men, largely due to heightened health concerns and awareness about product safety. Women are more likely to scrutinize product ingredients and opt for ecofriendly alternatives that align with their values of sustainability and personal well-being. This trend underscores the importance of targeting women as the primary demographic for green cosmetic marketing campaigns.

#### C. Education

Education level strongly correlates with awareness about environmental issues and preferences for eco-friendly products. Consumers with higher educational attainment, such as graduates and postgraduates, exhibit greater knowledge about the harmful effects of conventional cosmetics on health and the environment. This awareness translates into informed purchasing decisions favoring green cosmetics with natural or organic ingredients. Conversely, consumers with lower education levels tend to be more price-sensitive and less aware of the benefits of eco-friendly products.

#### D. Income

Income levels significantly influence purchasing Behaviour toward green cosmetics. Higher-income groups demonstrate a strong willingness to pay premium prices for eco-friendly products, viewing them as healthier options and status symbols that reflect their commitment to sustainability. Middle-income consumers exhibit moderate interest but are cautious about pricing, often balancing affordability with product quality. Lower-income groups are highly price-sensitive, limiting their adoption of green cosmetics unless affordable options are available.

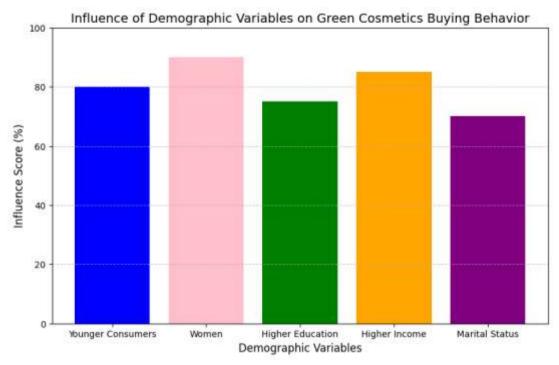
#### E. **Marital Status**

Marital status distinctly shapes product preferences among consumers. Married women tend to prioritize beautyenhancing products that cater to societal expectations associated with marital roles, such as achieving flawless skin or enhancing overall appearance. Single women focus more on skincare benefits such as sun protection and blemish control, reflecting their individual priorities for maintaining healthy skin.

#### Occupation

Occupation influences exposure levels to information about green products and sustainability concepts. Professionals working in corporate or managerial roles are more likely to be aware of environmental issues due to workplace initiatives emphasizing corporate social responsibility (CSR) and media engagement. This group demonstrates higher propensity to purchase green cosmetics compared to homemakers or students, who may have limited exposure to sustainability campaigns.



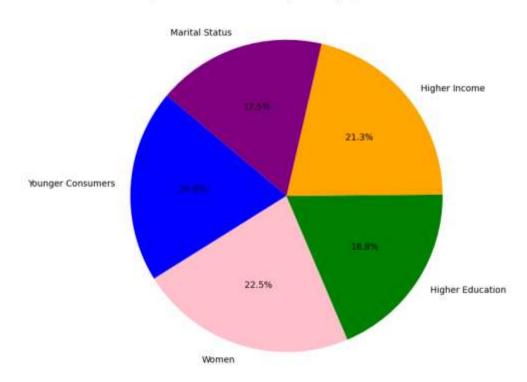


### • Alignment with Existing Literature

These findings align closely with existing literature on sustainable consumption practices:

- a. Younger consumers are more environmentally conscious due to greater exposure to sustainability education.
- b. Women dominate the cosmetics market due to heightened health concerns.
- c. Higher education enhances environmental awareness, leading to stronger preferences for eco-friendly products.
- d. Income levels determine affordability and willingness to pay premiums for green alternatives.
- e. Marital status influences specific product choices—beauty enhancement versus skincare focus.

# Proportion of Influence by Demographic Variables



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The study reinforces the importance of tailored marketing strategies based on demographic segmentation to effectively address the diverse needs of consumer groups.

### • Implications for Marketing Strategies:

Marketers can leverage these insights by designing targeted campaigns that emphasize specific benefits aligned with demographic preferences:

- a. **Age-Based Campaigns**: Highlight skin health benefits for younger audiences while promoting antiaging properties for older consumers.
- b. Gender-Specific Messaging: Focus on safety and eco-friendliness in campaigns targeting women.
- c. **Educational Initiatives**: Educate less-informed segments about the advantages of green cosmetics through digital platforms.
- d. **Income-Based Pricing**: Offer affordable options alongside premium products to cater to diverse income groups.
- e. **Marital Status Considerations**: Tailor product messaging—beauty enhancement for married women versus skincare benefits for single women.
- f. **Occupational Targeting**: Use workplace CSR initiatives or professional networks to promote green cosmetic adoption among professionals.

By addressing these demographic nuances, businesses can enhance their market penetration while promoting sustainable consumption practices.

#### 7. CONCLUSION

The findings from this study underscore the critical role that demographic characteristics such as age, education level, income bracket, marital status, and occupation play in shaping consumer attitudes and purchasing Behaviour toward green cosmetic products in Agra's urban market context. As awareness about environmental sustainability and health consciousness continues to grow among Indian consumers—particularly women—the demand for ecofriendly cosmetic alternatives is expected to expand rapidly. This shift represents a significant opportunity for businesses and marketers to align their strategies with evolving consumer preferences.

#### Kev Insights

- i. **Age-Based Preferences**: Younger consumers exhibit heightened environmental consciousness and prioritize health benefits such as UV protection and acne prevention. Middle-aged consumers balance skincare benefits with beauty enhancement, while older consumers focus on anti-aging properties and appearance improvement. These age-specific preferences highlight the need for targeted product development and marketing campaigns.
- ii. **Gender Influence**: Women consistently demonstrate stronger preferences for green cosmetics due to heightened health concerns and greater awareness of product safety. This demographic remains the primary audience for green cosmetic products, necessitating gender-specific messaging emphasizing safety and eco-friendliness.
- iii. **Education Impact**: Higher education levels correlate positively with increased awareness about environmental issues and preference for eco-friendly products. Educated consumers are more likely to make informed decisions, favoring products with natural ingredients and sustainable packaging.
- iv. **Income Level**: Income plays a pivotal role in determining affordability and willingness to pay premiums for green cosmetics. Higher-income groups are more inclined toward premium-priced eco-friendly products, whereas middle- and lower-income groups exhibit price sensitivity, requiring affordable alternatives.
- v. **Marital Status**: Marital status distinctly influences product choices, with married women prioritizing beauty enhancement products and single women focusing on skincare benefits such as blemish control and sun protection.
- vi. **Occupation Influence**: Professionals show higher awareness of sustainability concepts due to workplace exposure, making them more likely to adopt green cosmetics compared to homemakers or students.

# • Alignment with Existing Literature

These findings align closely with existing research emphasizing the importance of demographic segmentation in understanding consumer Behaviour toward green products. Studies have consistently shown that environmental consciousness, health concerns, affordability, and personal priorities drive consumer preferences for eco-friendly alternatives.

# • Implications for Marketers

Marketers must leverage these insights by developing tailored strategies catering specifically to distinct demographic segments identified through this research:

i. **Age-Specific Campaigns**: Highlight skincare benefits for younger audiences while promoting antiaging properties for older consumers.

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- ii. **Gender-Focused Messaging**: Emphasize safety, health benefits, and eco-friendliness in campaigns targeting women.
- iii. **Educational Initiatives**: Increase awareness among less-informed segments through digital platforms or community outreach programs.
- iv. **Income-Based Pricing Strategies**: Offer diverse price points to cater to various income groups without compromising quality.
- v. **Marital Status Considerations**: Tailor product messaging—beauty enhancement for married women versus skincare benefits for single women.
- vi. **Occupational Targeting**: Use workplace CSR initiatives or professional networks to promote green cosmetic adoption among professionals.

#### • Future Scope

As the market for green cosmetics continues to grow, future research should explore additional psychographic factors such as lifestyle choices, personality traits, and cultural influences alongside demographic variables. Furthermore, examining the impact of digital marketing channels on consumer Behaviour can provide deeper insights into how brands can effectively reach eco-conscious audiences.

In conclusion, understanding the interplay between demographic factors and consumer Behaviour is essential for businesses aiming to position themselves competitively in the green cosmetics market. By addressing these nuances strategically, companies can not only enhance their market penetration but also contribute meaningfully to promoting sustainable consumption practices in India's evolving urban landscape.

### 8. RECOMMENDATIONS

The findings from the study offer actionable insights for marketers and businesses aiming to tap into the growing market for green cosmetics. By strategically tailoring their approaches to align with identified demographic and psychographic preferences, businesses can effectively address consumer needs while promoting sustainable consumption practices. Below is an expanded discussion of the recommendations:

#### A. Targeted Campaigns for Younger Demographics (<25 years)

Younger consumers exhibit heightened environmental consciousness, making them a key segment for green cosmetic products. Marketers should design campaigns that emphasize skin health benefits such as acne prevention, UV protection, and the use of natural ingredients. Digital platforms like social media can be leveraged to engage this tech-savvy demographic through interactive content, influencer collaborations, and eco-friendly product challenges. Campaigns should highlight the alignment of green cosmetics with their values of sustainability and personal health.

# • Implementation Strategies

- i. Use Instagram and TikTok influencers to promote eco-friendly skincare routines.
- ii. Create educational content (e.g., short videos or infographics) explaining how green cosmetics contribute to environmental sustainability.
- iii. Offer discounts or loyalty programs targeted at students and young professionals.

# **B.** Educational Initiatives for Educated Segments (Graduates/Postgraduates)

Education significantly influences awareness and preference for green products. Consumers with higher educational attainment are more likely to understand the benefits of eco-friendly cosmetics and make informed purchasing decisions. Businesses should focus on creating educational initiatives that highlight the environmental advantages of green cosmetics, such as reduced carbon footprints and cruelty-free testing.

#### • Implementation Strategies:

- i. Collaborate with universities or professional organizations to host webinars or workshops on sustainable beauty.
- ii. Develop detailed product labels that transparently communicate ingredients, sourcing practices, and environmental impact.
- iii. Publish blogs or articles on company websites explaining the science behind green cosmetics.

# **C. Diverse Pricing Options for Income Groups**

Income levels play a pivotal role in determining affordability and willingness to pay premiums for green cosmetics. While higher-income groups are willing to pay more for premium products, middle- and lower-income groups exhibit price sensitivity. To cater to diverse income brackets, businesses should offer a range of products at varying price points without compromising on quality.

#### • Implementation Strategies:

i. Introduce budget-friendly product lines using smaller packaging sizes or simplified formulations.



# EPRA International Journal of Environmental Economics, Commerce and Educational Management

Volume: 12 | Issue:3 | March 2025

- Offer subscription models with tiered pricing to make eco-friendly products accessible across income ii.
- iii. Partner with local retailers in urban areas to ensure affordable options are widely available.

# **D.** Digital Marketing Strategies for Marital Status Segments

Marital status distinctly influences product preferences—married women prioritize beauty enhancement products, while single women focus on skincare benefits such as blemish control and sun protection. Digital marketing platforms can be used to create tailored campaigns addressing these distinct needs.

# **Implementation Strategies:**

- For married women: Highlight anti-aging properties and beauty-enhancing features in advertisements i. on platforms like Facebook or Pinterest.
- ii. For single women: Focus on skincare benefits through Instagram campaigns featuring dermatologists or skincare influencers.
- iii. Use targeted email marketing with personalized product recommendations based on marital status.

#### E. Leveraging Occupational Insights

Professionals in corporate roles exhibit higher awareness of sustainability concepts due to workplace exposure to CSR initiatives and media engagement. Businesses can target this segment by emphasizing eco-friendly practices in their branding and communication strategies.

#### **Implementation Strategies:**

- Develop corporate gifting programs featuring green cosmetic products. i.
- Partner with companies to include green cosmetics in employee wellness packages. ii.
- iii. Create LinkedIn campaigns showcasing the brand's commitment to sustainability.

#### F. General Recommendations

To further strengthen market penetration, businesses should adopt the following strategies:

- Collaborate with NGOs and Government Initiatives: Partner with organizations promoting environmental sustainability to enhance credibility and reach.
- Use Eco-Certifications: Obtain certifications like "Cruelty-Free" or "Organic" to build trust among ii. environmentally conscious consumers.
- Promote Recycling Programs: Encourage consumers to return used packaging for discounts iii. or rewards, reinforcing eco-conscious Behaviour.
- Invest in Research: Continuously innovate by researching new sustainable ingredients and production iv. methods.

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