DETERMINANTS OF HOUSEHOLDS’ E-WASTE DISPOSAL IN SOUTHWESTERN STATES, NIGERIA

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Abstract— In view of the complex composition of e-waste and its resultant implications for e-waste disposal decision among constituents, including households, at the micro-level; empirical evidences on factors predisposing consumer e-waste disposal behavior, particularly for specific e-waste category would enrich decision making on sustainable e-waste management plan in developing country context. It is on this premise/background that we examined determinants of households’ e-waste disposal decision for specific e-waste categories at local level in selected States – Lagos and Oyo States, Southwestern Nigeria. Using a 2018 household data set collected through questionnaire survey, and subjected to descriptive and inferential analytical tools. This study finds differences in the factors influencing households’ e-waste disposal decision between the two States and even within each states, for each e-waste category considered. Inconvenience, value reward, non-implementation/lack of e-waste legislation/policy and lack of e-waste collection/take back system were predominant determinants of households’ decision to store or dispose the e-waste categories in the study area. The study result has positive implications for sustained e-waste management plan and action at local levels, and more specifically for the study area.

Keywords— determinants, disposal, e-waste, households, management, Nigeria

I. INTRODUCTION

Growing e-waste volume is a global issue. The peculiarity of the increasing quantity in developing countries is even more worrisome. This is on account of uncontrolled (in and out)-flow of the waste and, most importantly, poor end-of-life management of Electrical and Electronic Equipment (EEE) in the global South. Consequently, e-waste management studies within the context, primarily revolves around e-waste disposal and treatment practices – which are generally unsafe, unhygienic and unwholesome. Thus, potentially hazardous to the eco-system and public health (Ding et al. 2012; Law and Covaci, 2014; Rao, 2014). In fact, a great deal of (economically) valuable materials are being lost (Grant and Oteng-Ababio, 2012; Izatt et al., 2012) to primitive e-waste management in developing countries.

Consumers – either at stakeholders’ or individual level, are major EEE users and eventually, downstream-producers of e-waste. Essentially, they play important role in e-waste management plan and actions for a given geographical location. Consumers (pro-)environmental behavior largely determines sustainable e-waste management practices within a given boundary. For instance, pro-environmental behavior often leads to very minimal damage to the environmental and public health. In view of this, there are number of research efforts on estimation, quantification and macro-level management of e-waste (Baldé et al., 2017; Baldé et al., 2015; Alavi et al., 2015; Taghipour et al., 2012; Chung et al., 2011; Steubing et al., 2010; Wager et al., 2011; Shinkuma et al., 2009; Streicher-Porte et al., 2009; Yoshida et al., 2009; Streicher-Porte et al., 2009), nonetheless, studies on micro-level determinants of e-waste management practices is relatively low in developing countries. Micro-level constituents are often primary targets of policy objectives and plan. Therefore, a probe in this research direction is germane for sustainable e-waste management plan, especially in developing countries. An inclusive and sustained e-waste management strategies is often dependent on a thorough understanding and comprehension of specific consumer (at micro-level, including households, private firm and public organizations) behavior in country and local context (Borthakur and Govind, 2017; Kwatra et al., 2013; Saphores et al., 2012).

In an attempt to understand factors influencing consumer e-waste disposal behavior, particularly at household level in developing countries. A number of suggestions have been made on factors determining household e-waste disposal decision (Borthakur, 2014; Dwivedy & Mittal, 2013; Estrada-Ayub & Kahhat, 2014; Jang, 2010; Li et al., 2012; Nnorom & Osibanjo, 2008; O Osibanjo & Nnorom, 2007; Oladele & Osibanjo & Nnorom, 2008; Wang et al., 2011; Xu et al., 2014), however, they are either too ‘generalized’ or ‘scoped’ in context, with little or no empirical justification. Furthermore, the literature has not taken the peculiarities and composite nature (physical and chemical) of e-waste into cognizance. E-waste items are highly polarized along size and...
composition - (non)hazardous and (recoverable) valuable material. Logically, the extent to which households ‘valorize’ specific e-waste item and category could differ, on account of complex e-waste nature, intertwined with socio-economic and demographic characteristics of households. In view of this, empirical research efforts have to be made to investigate the extent to which these ‘hypothetic’ factors (in extant literature) influence households’ e-waste management practices, especially disposal options; and more importantly, major decision factor(s) determining households’ e-waste disposal for specific e-waste category.

We made research attempt in this direction, however, taking into perspective specific e-waste category. Our assumption is that e-waste item under specific category have almost or approximately similar characteristics – physical and chemical. For instance, large household e-waste items are relatively large and heavy - majorly composed of steel and irons, however, with little or no hazardous chemicals; on the contrary, IT/Telecommunication e-waste items – chief constituents being hazardous materials and (recoverable) precious metals (Kiddie et al., 2013; Robinson, 2009). Thus, the objective of this study is to:

i) identify the factors influencing consumers’ e-waste disposal decision,

ii) determine the extent to which these identifiable factors influence household e-waste disposal, taking e-waste category into perspectives.

Furthermore, our study is limited to developing countries, however, laying emphasis on households’ within specific Local Government Areas (LGAs) in selected states, Southwestern Nigeria. We started with a section on a concise review of literature of attributable factors influencing consumers’ e-waste disposal decisions and options in developing countries. Then followed with this study’s methodology section. Subsequently, a section on the result and discussion of this study. This paper is wrapped up with a concluding section.

II. FACTORS INFLUENCING E-WASTE DESTINATIONS: A REVIEW OF LITERATURE

In developing country context, there is a symmetric consumption pattern (growing adoption and usage) of electrical and electronic equipment, however, disproportionate options in the end of life management of these products (Borthakur, 2014; Li et al., 2012). Organizational routine and policy, and leadership could play important role in e-waste disposal options in private and public enterprises. On the contrary, households are open to more options; on account of households’ socio-economic differences, and often accustomed discretion on e-waste disposal decision. E-waste disposal at all levels, especially in vast majority of developing countries, is generally inappropriate with options of landfills; refuse dumpsite; sell/give to friends, family members and relatives; second hand market; store and donation (Borthakur, 2014; Dwivedy & Mittal, 2013; Estrada-Ayub & Kahhat, 2014; Song et al., 2012). At the household level, literature (Borthakur, 2014; Borthakur & Govind, 2017; Dwivedy & Mittal, 2013; Estrada-Ayub & Kahhat, 2014; Li et al., 2012; Nnorom et al., 2009; Nnorom & Osibanjo, 2008; O Osibanjo & Nnorom, 2007; Oladele Osibanjo & Nnorom, 2008; Saphores et al., 2012; Wang et al., 2011) has suggested ‘hypothetical’ factors influencing households’ e-waste management behavior, including disposal, in developing countries. These studies ‘hypothetically’ attribute factors to differing consumer behavior in e-waste management practices in developing countries situation. Thus, the need for an empirical investigation.

Borthakur (2014) examined e-waste generation and management among different stakeholders, including households in the city of Pune, India. At household level, a survey was conducted in two different areas with distinct income groups of residence; the lower and lower-middle, and upper-middle income group. Generally, this study result indicated primitive e-waste management, irrespective of the stakeholders considered for the study. The author revealed that the usual practice is to keep Old and/or unused EEE at home, which are in turned exchanged for new ones, especially during festive period. The replacement of these wastes usually peaked due to lots of exchange offers, during the season. Thus, in this study context, ‘best’ exchange offer (in terms of newness and/or quality) determined e-waste management decision among households in the city of Pune, India. The outcome of another independent, but empirical finding (Dwivedy & Mittal, 2013) in India, also show that best exchange was among the most determinant factors influencing consumer e-waste disposal choices.

Furthermore, the lack of infrastructure (in terms of e-waste disposal facilities) also contributes to unwelcome e-waste management practices at all levels, in developing countries (Nnorom & Osibanjo, 2008; O Osibanjo & Nnorom, 2007). The availability of e-waste disposal infrastructure, and its close proximity to households enables ease of access, thus, reducing the quantity of the waste stream that flows into unwarranted destination such as landfills and dumpsites. Otherwise, households capitalize on available but unwelcome disposal choices. Developing countries, especially African countries are still generally lacking in appropriate infrastructure required for e-waste disposal. However, in Asian countries (particularly India, China and Japan) where these infrastructures are available, they are either insufficient or too distant away from consumers. Essentially, ‘situational’ factors, which is not only limited to available e-waste disposal infrastructure but also proximity for usage, determines households’ e-waste decisions and destinations (Borthakur, 2014; Estrada-Ayub & Kahhat, 2014; Li et al., 2012). Consumer decision to store or dispose unused computer products/goods largely depends on the availability and
proximity of designated disposal infrastructure (Estrada-Ayub & Kahhat, 2014). In view of these challenges, households may use other e-waste handling and management channel including storage and donation. Although, this practice may reduce the toxic flow of e-waste constituents into the ecological system, nonetheless, it restrains flow of the waste into formal recycling system; thus a potential drawback for optimum e-waste recycling capacity and business.

Moreover, consumer e-waste disposal choices could also be based on ‘subjective’ factors, such as e-waste size, storage space and perceived value. These factors remarkably differ among consumers and, largely a function of socio-economic environment within which individual or collectively – stakeholders, operates. For instance, high income household are more likely to discard their e-waste by given or donation to (close) associates. In such situation, “perceived” value (market, economic or financial gain) of the waste is not an important consideration at the point of disposal (Estrada-Ayub & Kahhat, 2014). Otherwise, the waste become a traded item, sold to second hand market and individual; which “presumably”, often characterized middle-lower and lower income household group. Perceived value, in the context of consumers’ emotional attachment to e-waste could also influence consumers’ e-waste disposal decision to store or dispose (Estrada-Ayub & Kahhat, 2014). In addition to this, heavy e-waste items in the large e-waste category such as refrigerator, freezers, washing machine and air conditioner are more likely stored due to logistics challenges in carrying these items. Alternatively, these items are disposed on condition of little or no storage space within house premises – “Inconveniences”, on account of limited or no storage space. Households’ decision on small e-waste items may differ due to their relatively smaller size. Thus, noticeable difference in household e-waste disposal pattern for specific e-waste category (Estrada-Ayub & Kahhat, 2014). According to a study (Li et al., 2012), households primarily disposed large household e-waste item category (televisions, refrigerators, washing machines, air conditioners and computers) by selling to scrap dealers while small household e-waste (cell phones) were primarily store at home. Households’ evaluation of e-waste disposal option often premised on ‘inconveniences’ and economic or financial incentives (Dwivedy & Mittal, 2013; Manomaiwibool & Vassanadumrongdee, 2011; Nnorom et al., 2009), particularly for specific e-waste items/category.

The implementation of specific e-waste legislation and policies, primarily Extended Producers Responsibility (EPR) and Polluters Pay Principles (PPP) enhances efficient and effective e-waste management system. Basically, these policies exclusively assign specific responsibilities to stakeholders involved in e-waste generation. These policies aimed at a well-coordinated, organized and oriented actions for sustained e-waste management practices. Although the modus operandi in implementation of these policies varies – at country level, nonetheless, (e-waste) take-back (or collection) and incentive mechanism are central features. Arguably, countries (including Switzerland, UK, Germany, Spain, and Japan) with extend e-waste legislation have sufficiently cut down indiscriminate dumping of the waste to unsafe route. In contrast, the lack of e-waste legislation/policies is a major challenge to sustainable e-waste management practices in majority of developing countries (Nnorom & Oshibanjo, 2008; Oshibanjo & Nnorom, 2007). This obvious deficiency led to the growing number of informal e-waste collectors – ‘epitome of e-waste management challenges in developing countries’. They have been the main conduit for discharging e-waste; and as well, chiefly engaged the use of primitive, crude and potentially hazardous techniques during material recovery process. Ultimately, the informal e-waste collectors are only driven by economic/financial gain. The resultant effect is the substantial flow of e-wastes into informal destination, in the Nigeria situation (Aodu et al., 2020). Logically, the lack of formal and properly organized e-waste collection mechanism is a major challenge to achieving sustainable e-waste management goal in Africa. E-waste legislation is an important factor influencing consumer decision to dispose or store e-waste (Estrada-Ayub & Kahhat, 2014). Therefore, the peculiarity of e-waste collection or take back mechanism in a country has implication for e-waste management practices.

The aforementioned factors predisposed consumers’ e-waste management, including disposal options; hence, a background for this study inquiry. In this study context, already identifiable factors: inconvenience (with respect to the waste size and storage space), value reward (economic or financial gain), ease and accessibility to other disposal options (informal), non-implementation/lack of e-waste legislation/policy, lack of e-waste disposal infrastructure, environment and public health consideration, emotional attachment, absence of e-waste collection/take back system and best exchange offer were linked to households’ e-waste disposal decisions for specific e-waste category.

III. METHODOLOGY

A. Study Area

The Southwestern region is one of the six geographical zones of Nigeria, comprising six states (Lagos, Oyo, Ogun, Ondo, Osun and Ekiti States). About 60% of industries and business in Nigeria are concentrated in this region. The region is the hub of the Country’s economy, with relatively dense population of industrial and business activities. Moreover, Nigeria’s international trade (import and export) is deeply rooted in the region, precisely in Lagos State. This is particularly so, due to the presence of one of Africa’s busiest ports – sea and air, thus, attracting significant volume of domestic and international trade. The Southwestern region is a major point of departure of tradeable goods including electrical and electronic products – new or used, to other regions of Nigeria. Furthermore, the region also has one of the highest human population, second to the Northwestern region.
Arguably, the social and economic peculiarities of the region, and in particular, Lagos State would have corresponding influence on other regional states, especially states in close proximity to Lagos. Therefore, for the purpose of this study, two states - Lagos and Oyo States in Southwestern Nigerian was purposively selected. These study areas have the highest human population – presumably highest household density, however, with varying socio-economic and demographic characteristics in the South West.

B. Study Design

This study sampling technique was first approached from the perspective of the geopolitical zones in the two selected states. Lagos and Oyo State each comprises three senatorial districts, with twenty (20) and thirty-three (33) Local Government Areas – LGAs, respectively. On this premise, three (3) LGAs – an LGA with the highest human population per senatorial district, were purposively selected from each of the States. Eventually, Alimosho (in Lagos West), Kosofe (in Lagos East) and Surulere (in Lagos Central) in Lagos State; and Ibadan North East (in Oyo South), Egbeda (in Oyo Central) and Saki West (in Oyo North) in Oyo State, were used for this study. Furthermore, a uniform random sampling of fifty (50) households in each of the selected LGAs, which culminated to a total sample size of three hundred (300) households.

Both quantitative and qualitative methods were used for this study. Survey instrument, precisely questionnaire was used for primary data collection. However, the design of this quantitative instrument (specifically for households, and in view of the study focus), relied heavily on qualitative information in literature (as indicated in the literature review section). Household representatives, preferably household heads were the focus of the survey, thus, a questionnaire represents a household unit. The questionnaire was partitioned into two section, and in the following order: socio-demographic characteristics of households and the extent to which the identifiable factors (in literature section) influence household disposal decisions for specific e-waste category. The households’ questionnaire survey (distribution and collection) was done within the last quarter of the year 2018.

At the end of this study survey, two hundred and forty-two (242) questionnaires were retrieved, representing 80.67% of the total (300) administered. Statistical Package for Social Scientist (SPSS) version 20 was used for the analysis of the data collected. Descriptive and Inferential statistics (ANOVA and post hoc) formed the basis upon which this study result and discussion are drawn.

IV. RESULT AND DISCUSSION

A. Socio-demographic characteristics, by States.

The socio-demographic characteristics of respondents (household representatives) and households are presented in Table 1a and 1b respectively. This section discusses the background characteristics of households and households’ respondents in the study area. The section is divided, thus;

**Socio-demographic characteristics of household respondents, by States.**

The socio-demographic characteristics of households’ respondents is has shown in Table 1a below. The Table shows that there are more male (58.7%) respondents than female. This pattern of gender distribution is also reflected in each of the states studied; (62.8%) and (54.5%) for Lagos and Oyo States respectively. Therefore, the relative share of female households’ respondents encountered during the survey activities were generally low. Furthermore, the age distribution of these respondents shows that majority falls within the age bracket of 31-40 years, constituting more that 40% of the total, and the lowest share (3.4%) being more than 60 years. Lagos and Oyo States also has similar pattern of age group distribution of respondents in the majority share, representing (33.3%) and (51.3%) respectively. In addition, this study result also revealed that more than 70% of the total households’ respondents had at least a degree (OND/HND/B.Sc.) certificate. A similar pattern of respondents’ educational profile was noticeably observed in the two states – Lagos and Oyo States. With respect to the family role of the respondents; majority were husband, representing 50.4% for Lagos state and 42.1% for Oyo state.

**Socio-demographic Characteristics of Households by States**

The socio-demographic characteristic of households surveyed for this study is has shown in Table 1b. This section discusses the general and specific background characteristics of the surveyed households. Table 1b reveals that the majority (32.3%) of the total households (for both States) surveyed has four (4) household members; likewise, in the respective states – 35.4% and 29.7% for Lagos and Oyo States respectively. Furthermore, the Table also shows that majority of the total household respondents (for both, and each states) had at most 2 household members in active job. However, a significantly large numbers (45.6%) of household members in Lagos State had more than 3 members in active job compared with household members (10.3%) in Oyo State. The unique socio-economic characteristics of Lagos state (being the commercial and business hub of Nigeria) could account for the disproportionate number of household members in active job between the two states.

| Variable         | Lagos State | Oyo State | Total |
|------------------|-------------|-----------|-------|
| **Gender**       |             |           |       |
| Male             | 76 (62.8)   | 66 (54.5) | 142 (58.7) |
| Female           | 45 (37.2)   | 55 (45.5) | 100 (41.3) |
| **Age Group (years)** |           |           |       |

Table-1a Socio-economic characteristics of Households’ respondents
Moreover, the total occupation distribution (in terms of the number of counts per occupation category) reveals that 44.5% of total household members (in both states) in active job were civil servants. This constitutes the largest share for households’ member occupational profile. This pattern of job were civil servants. This consti-

### Table 1a shows the socio-economic distribution of households’ respondents in Lagos and Oyo States

| Income (Aggregate) | Lagos State | Oyo State | Total |
|-------------------|-------------|-----------|-------|
| <50,000           | 11 (9.6)    | 2 (1.7)   | 13 (5.5) |
| 50,000-100,000    | 22 (19.1)   | 16 (13.2) | 38 (16.1) |
| 100,001-150,000   | 34 (29.6)   | 31 (25.6) | 65 (27.5) |
| 150,001-200,000   | 21 (18.3)   | 47 (38.8) | 68 (28.8) |
| 200,001-250,000   | 19 (16.5)   | 15 (12.4) | 34 (14.4) |
| 250,001-300,000   | 2 (1.7)     | 5 (4.1)   | 7 (3.0) |
| 300,001-350,000   | 4 (3.5)     | 5 (4.1)   | 9 (3.8) |
| >350,000          | 2 (1.7)     | 0 (0.0)   | 2 (0.8) |

**Total**        | **115**     | **121**   | **236**   |

The result of this study (as in Table 2a) shows that for the households in Lagos State, there is no statistical significant difference ($p > 0.05$) in the factors influencing household e-waste disposal decision for large household ($p = 0.871$); small household ($p = 0.709$); consumer ($p = 0.579$); and IT/Telecommunication ($p = 0.987$); e-waste category. On the contrary, there is a significant difference ($p < 0.005$) in the factors influencing e-waste disposal decisions for the households in Oyo State (as shown in Table 2b), with $p = 0.000$ (at 95% confidence level) for large household; small household; consumer; and IT/Telecommunication; e-waste category.

Moreover, and specifically for respondents in Oyo State, a post hoc result (as in Table 3) indicated that there is a statistical significant difference ($p = 0.000$) between inconvenience and all other factors considered for this study. Inconvenience (2.7143) was the most important factor influencing household disposal decision on large household e-waste category. Although all other factors also had slight effects on households’ e-waste disposal decision, inconvenience (with respect to the size of and storage space for large household e-waste category) was a prime disposal decision factor among the households in Oyo State. The Table also revealed that there is no statistical significant difference ($p > 0.005$) between: value reward, lack of e-waste disposal infrastructure, best exchange offer and absence of e-waste collection/take back system; and ease/accessibility, lack of e-
waste legislation/policy, environment and public health consideration and emotional attachment.

In the case of factors influencing Oyo State Household’s decision on small household e-waste category, Table 3 revealed that there is a statistical significant difference (p < 0.005) between: inconvenience (2.0693), lack of e-waste infrastructure (1.9901) and absence of e-waste collection/take-back system (2.0612); value reward (1.7723) and lack of e-waste disposal infrastructure (1.9901); environment and public health consideration (1.4554), emotional attachment (1.2475) and best exchange offer (1.4356); ease and accessibility (1.5000) and non-implementation/lack of e-waste legislation/policy (1.5743). Thus, inconvenience and absence of e-waste collection/take-back system were the most important factors that influenced household e-waste decision on small household e-waste category.

Furthermore and with respect to disposal decision factors influencing Households’ in Oyo State on consumer e-waste category, the Table revealed statistical significant difference (p < 0.005) between; Inconvenience (2.0594), value reward (1.9109), lack of e-waste disposal infrastructure (1.9802) and absence of e-waste collection/take-back system (2.0198); ease and accessibility (1.5200), lack of e-waste legislation/policy (1.6337), environment and public health consideration (1.5152) and best exchange offer (1.5347); and emotional attachment (1.2525). Inconvenience and absence of e-waste collection/take-back system were the most important factor determining Oyo State household’s decisions on consumer e-waste disposal options.

Best exchange offers and value reward were the major factors influencing households’ e-waste disposal decision for IT/Telecommunication e-waste category (as indicated in Table 3) in Oyo State. There is statistical significant difference (p < 0.005) between; best exchange offers (2.3879); value reward (2.1111); lack of e-waste disposal infrastructure (1.8120), absence of e-waste collection/take back system (1.8205) and inconvenience (1.7586); environment and public health consideration (1.5641), lack of e-waste legislation/policy (1.4397), ease and accessibility (1.3839); and emotional attachment (1.1795) (as shown in Table 3 below).

Table 2a ANOVA Table for Households in Lagos State

| E-waste Category | Sum of Squares | df | Mean Square | F | Sig. |
|------------------|----------------|----|-------------|---|-----|
| Large Household E-waste | Between Groups | 2.7143^b | 112 | 0.015 | 0.000 |
| Within Groups | 2.0693^a | 101 | 0.010 | 0.000 |
| TOTAL | 2.0594^a | 116 | 0.009 | 0.000 |
| Small Household E-waste | Between Groups | 1.5742^d | 108 | 0.015 | 0.000 |
| Within Groups | 1.5405^e | 100 | 0.015 | 0.000 |
| TOTAL | 1.5343^ed | 111 | 0.014 | 0.000 |

Table 2b ANOVA Table for Households in Oyo State

| E-waste Category | Sum of Squares | df | Mean Square | F | Sig. |
|------------------|----------------|----|-------------|---|-----|
| Large Household E-waste | Between Groups | 1.48 | 8 | 0.19 | 0.22 |
| Within Groups | 1.48 | 8 | 0.19 | 0.22 |
| TOTAL | 1.48 | 8 | 0.19 | 0.22 |

Table 2a shows no significant differences among the factors for each of the e-waste category, particularly for subjects in Lagos State.

Source: Author’s Survey, 2018

Table – 2b ANOVA Table for Households in Oyo State

| E-waste Category | Sum of Squares | df | Mean Square | F | Sig. |
|------------------|----------------|----|-------------|---|-----|
| Consumer Household E-waste | Between Groups | 6.53 | 8 | 8.15 | 10.78 |
| Within Groups | 6.29 | 8 | 0.89 | 10.78 |
| TOTAL | 12.82 | 16 | 0.81 | 10.78 |

Table 2b shows significant differences among the factors for each of the e-waste category, particularly for subjects in Oyo State.

Source: Author’s Survey, 2018
Table 3 shows the exact differences in the factors influencing households’ e-waste disposal decisions for each e-waste category, at a confidence level of 95% (5% level of significance).

**N B:**
- a, b, c, d, e, f: Duncan Multiple Range Test for homogenous subsets of ratings.
- A – Inconvenience, B – Value Reward, C – Ease and Accessibility to informal disposal options, D – Non-implementation/lack of e-waste legislation/policy, E – Lack of e-waste disposal infrastructure, F – Environment and Public health consideration, G – Emotional attachment, H – Absence of e-waste collection/take back system and I – Best exchange offer.

**Source:** Author’s Survey, 2018

### VI. CONCLUSION

This study examined determinants of household e-waste disposal decision in two Southwestern States - Lagos and Oyo States, Nigeria. The outcome of this comparative study relied on suggested determinants of consumer behavior, specifically as it concerns e-waste disposal decisions and options. However, we took a step further and empirically tested the extent to which these factors influenced consumer behavior at micro-level, using household as case study, and in relation to five e-waste categories – large household, small household, consumer and IT/Telecommunication e-waste. Based on this research study, inconvenience, value reward, ease and accessibility, non-implementation/lack of e-waste legislation/policy, lack of e-waste disposal infrastructure, environment and public health implication, emotional attachment, absence of e-waste collection/take back system and best exchange offer, had influenced households’ disposal decision for all the e-waste categories in both states. It was more importantly, inconvenience, value reward, lack of e-waste collection/take back system and best exchange decision are the predominant factors that influenced subjects’ e-waste decision in the study area, in Oyo State. This study outcome has positive implications for policy and action plan towards sustainable e-waste management in the study areas. Thus, local authorities in the respective areas of study should take into cognizance these varying and important factors, particularly as it concerns households, for future e-waste management decision making.

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