

The Effect of Attitude of FKM UMJ Students on The Use of Paid Plastic Bags in 2021

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ABSTRACT

Plastic, particularly plastic bags, is an object that cannot be separated from everyday life. Plastic bags can be used as a wrapper and to transport luggage or groceries, among other things. The use of plastic bags is out of control as a result of the practice of giving them out for free. As a result, better management is required to limit the usage of plastic bags, one of which is the establishment of a paid plastic bag policy. The goal of this study was to see how FKM UMJ students' opinions influenced their use of paid plastic bags in 2021. In June 2021, a qualitative investigation was done as part of this research. In-depth interviews and document reviews were used to acquire data. Purposive sampling was used to choose students from the FKM UMJ Class of 2019 as informants for this investigation. Based on the research that has been done, it is found that the influence of the attitude of FKM UMJ students towards the use of paid plastic bags is positive and supports government policies regarding this matter. So it's time for us to take wise steps in using single-use plastic bags.

Keywords: Plastic bag, Use, Plastic waste, Paid



INTRODUCTION

Plastic is an object that cannot be separated from everyday life, especially plastic bags. One of the functions of plastic bags is as a wrapper and to carry luggage or groceries, whether in the form of food, drinks, clothing, or other household items. The cheap, practical, and compact nature of plastic bags make the use of plastic bags increasingly out of control.

The increase in the use of plastic bags is also related to the increase in the world population. This is reinforced by Lerdy and Anityasari (2011) in their research which states that in one year the world's population can use 500 million to 1 billion plastic bags, where each person uses 150 plastic bags each year. To make that much plastic, it takes 12 million barrels of oil and 14 million tree trunks that must be cut down as the basic raw materials for making it. (Astuti, 2016)

Quoted to BBC Indonesia (2016), around eight million tons of plastic waste circulates in the world's oceans every year. This fact is the result of research presented at the annual meeting of the American Association for the Advancement of Science (AAAS). According to the Minister of Maritime Affairs and Fisheries of the Republic of Indonesia, Susi Pudjiastuti, plastic waste that enters the sea can be broken down into small particles called microplastics with a size of 0.3-5 millimeters. Marine animals often consume microplastics here. (Utami et al., 2018)

Based on data obtained from the Indonesian Plastic Industry Association (NAPLES) and the Central Statistics Agency (BPS), there is a surprising fact that Indonesia is the second-largest plastic waste contributor in the world. Plastic waste in Indonesia reaches 64 million tons/year, of which 3.2 million tons is plastic waste that is dumped into the sea. According to the same source, 10 billion pieces of plastic bags are disposed of into the environment per year or as many as 85,000 tons of plastic bags. According to the Minister of Maritime Affairs and Fisheries of the Republic of Indonesia, Susi Pudjiastuti, plastic waste that enters the sea can be broken down into small particles called microplastics with a size of 0.3-5 millimeters. Marine animals often consume microplastics here. (Puspita, 2018 in Krisyanti, Vos and Priliantini, 2020)

Plastic bags are materials that are very easy to find in everyday life, their use can be found in almost every activity, for example, when buying something in big shops to small stalls, plastic bags are always used as a container to make it easier to carry something that is needed. has bought it. These plastic bags are obtained free of charge as a facility when buying something, not infrequently plastic bags are only used once and are immediately thrown away. Of course, habits like this are the problem with the accumulation of used plastic bag waste.

However, what needs to be underlined is that in terms of the production of plastic bags, what needs to be emphasized is human behavior that is not wise in using it. Many found cases of plastic bags being used only for one time, after which they were thrown away. Though the plastic bag can be reused for other purposes. This kind of attitude makes plastic bag waste scattered everywhere, and



eventually becomes a pile of plastic. In other words, plastic bags or items made of plastic are human innovations that can meet the needs of life. Tools made of materials are generally durable, not easily damaged, can be used repeatedly, and are practical. In its development, these discoveries turned out to have a negative impact that could be considered detrimental to humans themselves. Plastic waste includes waste that is difficult to decompose by natural processes, so it takes hundreds of years to destroy it. (Acrom, 2019)

For this reason, it is important to improve management to reduce the use of plastic bags, one of which is the implementation of a paid plastic bag policy. The paid plastic bag policy is one of the programs that aim to reduce waste generation, especially plastic waste. In Indonesia, the new plastic bag policy was implemented in February 2016 to coincide with the National Waste Care Day. (Krisyanti, Vos, and Priliantini, 2020)With the habit of giving plastic bags for free, the use of plastic bags is getting out of control. Efforts to reduce the use of plastic bags can indirectly inhibit global warming and maintain environmental sustainability. (Astuti, 2016)

This study aims to determine the effect of the attitudes of FKM UMJ students on the use of paid plastic bags in 2021. The benefits of knowing the attitudes of FKM UMJ students towards the use of plastic bags, knowing the negative and positive impacts of using plastic bags, and knowing how effective the application of paid plastic bags is. This research was conducted from June 18, 2021 – June 21, 2021. Where the respondents were students of the University of Muhammadiyah Jakarta, Faculty of Public Health, batch 2019.

METHODS

This research was conducted with a qualitative study conducted in June 2021. Data collection was carried out by in-depth interviews and document review. Informants from this study were students of FKM UMJ Class of 2019 who were selected by purposive sampling.

RESULTS

AND

DISCUSSION

Table 1. Interview Matrix

TOPICS	MEANING UNITS	CODE	SUBCATEGORY	CATEGORY	THEME
1. What is you	r In my opinion, when	Take the	The initiative hung	Have an idea	The
attitude when	n shopping and	initiative to	on the motor	or idea	existence of
you don'	t forgetting to bring a	carry a spare			ideas,
bring plastic	c plastic bag, it is better	eco-friendly			enthusiasm,
bags when	n to take the initiative	bag and hang			desires, and
shopping and	to carry a spare eco-	the bag on the			policies
what do you	friendly bag/cloth bag	motorbike so			from the
think abou	t on a motorbike or in	that it is easy			government.
paid plastic	c a bag, or a hanger	to carry			
bags?	containing a cloth	anywhere.			
	bag to make it easy to				
	carry everywhere. In				
	my opinion, about				



TOPICS	MEANING UNITS	CODE	SUBCATEGORY	CATEGORY	THEME
	paid plastic, this has become public awareness that there has been an appeal not to use plastic bags and it is preferable to use environmentally friendly bags or cloth bags that can be used many times.				
	My attitude is normal, but I'm a bit lazy to fill the house. Opinions about paid plastic bags are good, so people who don't carry a bag/tote bag can think about the	Be normal but lazy with the plastic waste that has piled up. His opinion is that the existence of paid plastic	It's normal and lazy to have plastic waste piling up. Good and think again.	It takes passion and will from yourself and have thoughts for the future	
	consequences, it's worth 200 silver. My attitude is that in	bags is good because it will make buyers think again to buy. It is better to	Tote bag, paper	Replace it	
	stores there are also other options to buy a tote bag or paper bag, it's better to buy a tote bag or paper bag instead of using a plastic bag because if you buy a tote bag, you can use it long term, while if it's plastic it will be damaged and even if the item is still available, it, why not? For example,	buy a tote bag or paper bag provided at the store because it can be used long-term rather than having to use plastic.	bag, long term, plastic	with a paper or cloth bag	
	dance on a motorbike or in a car instead of using plastic.		Paid, lazy to buy	There is a policy and firmness	
	My opinion is positive if for example plastic bags are paid for, people will be lazy to buy plastic bags because it's useless to spend money to buy plastic bags, it's better to bring your shopping place so it's more efficient, so it saves	Positive because if for example the plastic bag is paid for, surely people will be lazy to buy plastic bags.			
		566			



TOPICS	MEANING UNITS	CODE	SUBCATEGORY	CATEGORY	THEME
	costs, then let's say plastic bags are made				
	for a fee he can				
	reduce the amount of				
	plastic in Indonesia				
	too				
	For example, if I'm	•	Lazy and worried.	Difficulty	
	shopping at Indomart, if I don't bring a	shopping at the			
	plastic bag, it's	supermarket,			
	normal. But now,	but worried			
	when you go to the	when			
	mall, you can't bring	shopping at			
	a plastic bag, so	the mall if you			
	sometimes you feel worried and lazy to	don't bring a			
	handle it.	shopping bag.			
	nundie n.		Does not matter.		
	If it's a paid plastic				
	bag, it doesn't matter,				
	as long as the plastic				
	bag is still under 500				
	silver. It's just that if we are told to pay	It doesn't			
	directly above 1000-	matter if the			
	2000, I don't think it's	price of a			
	right.	plastic bag is			
		under 500			
2 Hans da man	I think the ettimate of	silver.	Card attitude and		TT = =14h
2. How do you respond to	I think the attitude of the sellers in the	A good attitude from	Good attitude and affordable price.	agree	Health promotion
supermarkets	market is good	the seller but	anordable price.		activities
that do not	because they include	the buyer still			and
provide free	preventing the use of	reaches out			prohibitions.
plastic bags	plastic for now who	with a			
and sell them	are facing a reduction	payment of			
for Rp. 200 per sheet?	in the use of plastic but if the price of	Rp. 200 per sheet.			
per sneet?	plastic bags is Rp.	sheet.			
	200 per sheet sold by				
	the seller, but the				
	buyer can reach it				
	easily.	Cood horses	Mala nania aman	Educate the	
	It's good, it can make people aware too. For	Good because it can make	Make people aware and efficient.	Educate the public	
	example, someone	people aware,	and efficient.	puone	
	who buys up to 5	and can be			
	plastic bags,	more efficient			
	multiplies 200 to	in the use of			
	1000. 1000 can be	money.			
	used for other				
	purchases. Ok, that means he is	Good, because	Reduce the use of	Ban on the use	
	contributing to	these	plastic bags	of plastic bags	
	reducing the use of	supermarkets	r-2010 0480	- prode ougo	
	plastic bags	contribute to			
	themselves. But it	reducing the			



TOPICS	MEANING UNITS	CODE	SUBCATEGORY	CATEGORY	THEME
	seems less effective because even though it is sold at that price, there are still many people who are willing to pay instead of having to bring their place.	use of plastic bags.			
	If supermarkets don't provide free plastic bags, I agree as long as that's a good thing. But I'm a normal person when shopping at supermarkets, for supermarkets, for supermarkets I agree, but for malls it's different. If you don't provide plastic bags for SMEs, it's much better because it's cool, just support for health campaigns.	Agree, because it will be better and can be used as a health campaign.	Better and will be a health campaign.	Health promotion and support from the government	
3. How do you respond to supermarkets that still provide free plastic bags?	In my opinion, sellers in supermarkets who still sell plastic bags should not open a business by selling plastic bags because they can be subject to administrative sanctions as stated in Article 22 paragraph (2) such as written warnings, forced money, freezing of permits to revocation of permits and even fines. IDR 25 Million.	Not selling plastic bags by article 22 paragraph 2.	According to the regulations.	Government regulations	Policies and sanctions
	This should be, all supermarkets in Indonesia can pay the same amount for the use of plastic bags. Do you want to be in a city, village, or remote area?	All supermarkets in Indonesia must apply a paid plastic bag.	Enforcement of paid plastic bags	There is a policy and firmness	
	The policy on plastic bags has existed for a long time, yes, they still violate it. Then they are still distributing the plastic bags, that's not good because people	Not good, because they mean they have violated policies related to the use of plastic bags and they	Garbage, policy violation, flood	Strict sanctions	





TOPICS	MEANING UNITS	CODE	SUBCATEGORY	CATEGORY	THEME
	will shop there to get free plastic bags, then	contribute to plastic waste			
	they will be thrown	that is thrown			
	away carelessly and	carelessly			
	that's what causes	where the			
	flooding, so they	garbage can			
	contribute to flooding	potentially			
	everywhere.	cause			
		flooding.			
	Lack of and disagree,	Disagree,	Disagree.		
	it must be from the	consumers			
	consumers	should be			
	themselves who are aware of bringing	aware to bring their plastic			
	aware of bringing their plastic bags.	their plastic bags.			
4. In your	In my opinion, the	Plastic bags	Cheap and	Make it easy	Easy
opinion, what	advantages and	are very	practical.	for consumers	Lusy
are the	benefits of using	cheap,	F		
advantages	plastic bags are that	practically			
and	they are very cheap,	used in daily			
disadvantages	practical to use in	activities.			
of using	daily activities,				
plastic bags?	flexible/flexible, not				
	rusty, lightweight and				
	can be made into				
	sheets. The advantages are	Mona musatiaal	Practical and	Difficult to	
	The advantages are the same as the	More practical because it is	difficult to parse.	Difficult to recycle	
	advantages of being	everywhere,	difficult to purse.	recycle	
	practical, everywhere	and has			
	there are plastic bags.	shortcomings			
	The downside is that	that are			
	it's hard to explain, it	difficult to			
	takes a long time.	describe.			
	There is, for example,	The plastic	Recycle, benefit		
	that plastic can be	can be			
	recycled into more	recycled into			
	useful things, for example, made into	something			
	bags made of woven	more useful.			
	plastic bags.				
	The advantages are	Efficient,	Efficient, easy, fast.		
	clear, efficient, our	easy, fast.	, ••••5, ••••5		
	time is faster, we	, ,			
	don't need to look for				
	non-plastic bags, it's				
	not complicated, it's				
	fast too. We don't				
	donate trash, donate				
	pollution, donate all				
	kinds of negative				
5. What is your	things. In my opinion, the	Using	Eco-friendly plastic	Self-	Reuse/recycl
solution	solution to the	environmental	bags, made of cloth,	awareness	e, bring your
regarding the	excessive use of	ly friendly	use plastic bags	u wai 011055	equipment
excessive use	plastic bags should be	bags made of	wisely, reduce		and replace
of plastic bags	replaced with	cloth to invite	negative impacts,		plastic raw
1	1		с _г ,		±



TOPICS	MEANING UNITS	CODE	SUBCATEGORY	CATEGORY	THEME	
and what is	environmentally	people to be	and do 3Rs.		materials	
your attitude	friendly bags made of	wiser in using plastic bags			with more	
towards plastic bags	cloth to invite people to be wiser in using	plastic bags and reduce the			environment ally friendly	
piling up at	plastic bags while at	negative			materials.	
home?	the same time	impact of			materials.	
	tackling the negative	plastic waste				
	environmental	and do 3Rs.				
	impacts of plastic					
	waste. Reduce,					
	Reduce, Recycle).	T . 1	<u> </u>	D :		
	I was given education	•	Education and	Bring eating		
	so I don't use plastic, after that I was told	to educate the public about	initiation bringing places to eat/drink	and drinking utensils from		
	that in Indonesia	the use of	from home.	home		
	there is a lot of	plastic waste	nom nome.	nome		
	plastic waste, at my	in Indonesia.				
	house, it's difficult to	And the				
	dispose of garbage	initiation of				
	because there is a lot	bringing				
	of garbage.	eating/drinkin				
	If you can, wherever	g utensils from				
	you go, bring an environmentally	home.				
	friendly bag, if you					
	can bring your place					
	to eat and drink from					
	home.					
	Right now there are	The	Distribution,	Replacing		
	plastic bags made	distribution	seaweed plastic,	plastic raw		
	from seaweed, yes, the distribution is	of plastic made from	good impact, shopping bags.	materials with seaweed		
	even more so that the	seaweed	shopping bags.	scaweeu		
	community can also	should be				
	be affected by the	increased				
	good. For example,	even more				
	using plastic bags	so that				
	excessively can cause	many				
	flooding, and we	people will				
	must also inform the	feel the				
	public that the impact of plastic bags is	good impact.				
	dangerous for the	Then you				
	environment, so that	have to be				
	we can reduce the	aware that if				
	number of plastic	you go				
	bags. Then we also	shopping				
	have to be more self-	you have to				
	aware so that when	bring your				
	we shop we bring our	shopping	Sound and roughd			
	place.	bag.	Saved and reused.	Put it back		
				I UL IL DACK		
	The attitude towards					
	The attitude towards plastic bags at home					
	The attitude towards plastic bags at home is best kept, if for					
	plastic bags at home					



TOPICS	MEANING UNITS	CODE	SUBCATEGORY	CATEGORY	THEME
	again to put something else.				
		The attitude			
		towards			
		plastic bags at			
		home is best			
		kept, if they are still useful,			
		of course, they			
		are reused to			
		put something			
		else.			
	First of all, we must	Self-	Self-awareness,		
	have the self-	awareness,	intention, making		
	awareness to hold	intend not to	shopping bags,		
	back, for example, if we shop, we hold	use excessive plastic bags,	campaigns.		
	ourselves back so we	plastic bags, make eco-			
	don't touch this	friendly			
	plastic bag. As much	shopping			
	as possible, before	bags/plastic			
	shopping, we intend	bags, and			
	ourselves if we don't	campaign			
	want to donate too	through social			
	much plastic. That's	media.			
	why we make it like an environmentally				
	friendly bag. Second,				
	a good solution is that				
	we make fun of it on				
	Instagram like a		Put it in the waste	Make crafts or	
	campaign.		bank and make decorations.	collect them to the manager	
	The first is that there			c	
	are lots of plastic	Put it in the			
	bags, I'm going to the	waste bank			
	garbage bank. I	and paint it for			
	collect it for up to a month, when it's been	decoration.			
	a month I change it to				
	the waste bank, the				
	waste that is				
	exchanged into				
	money.				
	Second, sometimes I				
	make decorations or				
	paintings when I'm having fun and I don't				
	have anything to do				
	at home, my hobbies				
	are also drawing and				
	painting. I often make				
	up the pictures in a				
	plastic bag, so in the				
	end, I throw it away				
	or put it in a garbage				





 TOPICS
 MEANING UNITS
 CODE
 SUBCATEGORY
 CATEGORY
 THEME

 bank.

The paid plastic bag policy is a concrete effort by the government to reduce waste generation from waste-producing sources. The pricing policy in this policy is intended to make people think again about using new plastic bags from their shops. This will indirectly reduce the amount of waste that will be sent to the community/consumers. One alternative to reduce the use of plastic bags is to bring your shopping bags that are not disposable.

In the interview, we asked the informants how they behaved when they did not bring their shopping bags when shopping, some informants said that they got around this by buying reusable bags such as tote bags or paper bags provided at the supermarket. The following is the statement of one respondent:

"It's better to buy a tote bag or paper bag provided at the store because it can be used for a long time rather than having to use plastic."

Public awareness is needed in using single-use plastic bags when shopping. In the paid plastic policy, the recommended price is Rp. 200. Supermarkets charge consumers a price for each new plastic bag they use. Based on the results of the interview, the informants welcomed it positively, because they thought it was good to do it by existing policies. However, because the price of plastic bags is affordable, it allows consumers to continue to buy them and is considered less effective.

"I think the attitude of the supermarkets is good because they include preventing the use of plastic for now, which is currently facing a reduction in the use of plastic, but if the price of plastic bags is Rp. 200 per sheet sold by supermarkets, still buyers can reach them easily."

Based on the informant's narrative, the researcher concluded that the application of paid plastic bags was considered less effective because plastic bags were sold for Rp. 200 can still be reached by the community. Although there are provisions regarding the use of paid plastic bags, there are still some supermarkets that provide them for free. Then we asked the opinion of the informants regarding this matter. From the interview results, it was found that all informants did not agree with the supermarket policy to provide plastic bags for free, because it could contribute to the amount of plastic waste.

The results of our interviews with informants about the advantages and benefits of using plastic bags, some of the informants answered that it is more practical and accessible in everyday life and if recycled plastic bags can be more useful. One of the programs to handle solid waste problems is the principle of Reduce and Reuse. The more we use materials, the more waste is generated. Reuse is Re-use (reuse) as much as possible, choose items that can be reused. Avoid using items that are disposable (one-time use, throw away). This can extend the time of using goods before they become waste (Hadiwiyoto, 1983 in Nur Jamilah 2018).





"The advantages are the same as the advantages, so it's practical, everywhere there are plastic bags. The downside is that it's hard to explain, it takes a long time. There are, for example, that plastic can be recycled into more useful things, for example, made into bags made from plastic bags."



Table 2. Summary of the analysis: code, sub-categories, categories, and themes

Theme	The existence of ideas, enthusiasm, desires, and policies from the government									
Category	Have an idea or idea A		Agre	e Government regulations		regulations	Make it easy for consumers		Self-awareness	
Sub-category	The initiative hung on the motor	Does not matter	Good attitude and affordable price.	Better and will be a health campaign.	According to the regulations.	Disagree	Cheap and practical.	Efficient, easy, fast.	Eco-friendly plastic bags, made of cloth, use plastic bags wisely, reduce negative impacts, and do 3Rs.	Put it in the waste bank and make decorations.
Code	 Take the initiative to carry a spare eco-friendly bag and hang the bag on the motorbik e so that it is easy to carry anywhere Be normal but lazy with the plastic waste that 	- It is better to buy a tote bag or paper bag provi ded at the store becau se it can be used long- term rather than	attitude from the seller but the buyer still reaches out with a payment of Rp. 200 per sheet. - Good because it	 Good, because these superma rkets contribut e to reducing the use of plastic bags. Agree, because it will be better and can be used as a health campaig n. 	 Not selling plastic bags by article 22 paragrap h 2. All superma rkets in Indonesi a must apply a paid plastic bag. 	- Not good, because they mean they have violated policies related to the use of plastic bags and they contribut e to plastic waste that is thrown carelessl	 Plastic bags are very cheap, practically used in daily activities. More practical because it is everywher e, and has shortcomi ngs that are difficult to describe. 	 The plastic can be recycled into somethin g more useful. Efficient , easy, fast 	 Using environment ally friendly bags made of cloth to invite people to be wiser in using plastic bags and reduce the negative impact of plastic waste and do 3Rs. It is necessary to educate the public about the use of plastic 	- The distribution of plastic made from seaweed should be increased even more so that many people will feel the good impact. Then you have to be aware that if you go shopping, you have to bring your shopping bag Self- awareness,

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Theme	The existence of ideas, enthusiasm, desires, and policies from the government									
Category	Have an idea or idea		Agree	Government regulations	Self-awareness					
	has piled	havin		y where		waste in	intend not to			
	up.	g to		the		Indonesia.	use excessive			
	-	use		garbage		And the	plastic bags,			
	- His	plasti		can		initiation of	make eco-			
	opinion is	с.		potential		bringing	friendly			
	that the			ly cause		eating/drinki	shopping			
	existence	- Positi		flooding.		ng utensils	bags/plastic			
	of paid	ve,		- Disagree		from home.	bags, and			
	plastic	beca		,			campaign			
	bags is	use if		consume			through social			
	good	for		rs should			media.			
	because it	exam		be aware			- Put it in the			
	will make	ple		to bring			waste bank			
	buyers	the		their			and paint it			
	think	plasti		plastic			for			
	again to	c bag		bags.			decoration.			
	buy.	is								
		paid								
		for,								
		surel								
		У								
		peopl								
		e will								
		be								
		lazy								
		to								
		buy								
		plasti								
		с								
		bags.								



The results of our interviews with informants what solutions did the informants do if they used plastic bags and attitudes towards plastic bags if they piled up at home, some of the informants answered that they invited people to be wiser in using plastic bags and reduce the negative impact of plastic waste and do 3Rs and use environmentally friendly bags.

"I think the attitude for plastic bags that accumulate at home should be done 3R (Reduce, Reduce, Recycle)."

"First of all, I have a lot of plastic bags. I collect it for up to a month, when it's been a month I change it to the waste bank, the waste that is exchanged into money."

The results of our interviews with informants what solutions did the informants do if they used plastic bags and attitudes towards plastic bags if they piled up at home, some of the informants answered that they invited people to be wiser in using plastic bags and reduce the negative impact of plastic waste and do 3Rs and use environmentally friendly bags.

CONCLUSIONS AND SUGGESTIONS

Reduction of the use of single-use plastic bags must continue to be carried out, as an effort to reduce the pile of plastic waste which can ultimately hurt the environment. In this regard, the government through the Ministry of Environment and Forestry issued a Circular regarding the application of the price and mechanism for paid plastic bags at modern retailers number SE-06/PSLB3-PS/2015 and number SE-1230/PSLB3-PS/2016.

Based on the research that has been done, it is found that the attitude of students towards the paid plastic bag policy is positive and supports the policy. One respondent prefers to buy a shopping bag/tote bag provided at the modern retailer because it can be used for a long time. Then other respondents took a 3R (Reuse, Reduce, Recycle) attitude towards the plastic waste that had started to accumulate in their homes.

The problem of plastic waste is not only the responsibility of one party but the responsibility of all of us. The many negative impacts caused by the accumulation of plastic waste in the environment should be enough to open our eyes and make us realize that all parties including the government, related sectors, and the community take an important role in fixing this plastic waste problem. So now is the time for us to take wise steps in using single-use plastic bags.

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