



## **Plastic Waste Management Scenario in Bangladesh**

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## **DEDICATION**

This Research Monograph is dedicated to all of my beloved teachers who always encourages me and help me to pursuing legal studies.

Md. Rakibul Hasan

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I am also grateful to the authors, journal, and webs mentioned in the references, but we bear the responsibility of errors, omission and discrepancies, if there any.

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## DECLARATION

The student of LL. B (hon's) solemnly declare that, the presented work has been performed by me and has been submitted in the fulfillment of the requirement for the degree of Bachelors of Law (LL. B).i declare that thesis has been prepared by me and has not previously submitted to any other university/ college/ organization for any academic qualification/ certificate/ diploma degree.

The work presented is our original work and it's not submitted before.

LL. B (Hon's)

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## CERTIFICATION

This is to certify that the thesis on ‘‘Plastic Waste Management Scenario in Bangladesh’’ done by Md. Rakibul Hasan (id: 151-26-762) in the partial fulfillment of the requirement for the degree of L.L.B (hon’s) from the Daffodil International University of Bangladesh. The thesis has been carried out under my guidance and is a record of research which carried out successfully.

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Mr. Md. Safiullah

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## ABSTRACT

In my research paper I am describe about the poor management scenario of plastic waste. I also describe the effects of the pollution by the plastic waste in my research paper. . As we all know that plastic waste management is one of the common problems of all countries. In some countries adopt the plastic management act and also banned the plastic bags. In Bangladesh there is no specific laws, rules or regulations. In my thesis paper, I give some my recommendation that the government should make specific laws and regulations for banned the use of plastic.it is high time to stop the use of plastic bags. Government should impose fine for using plastic bags and proving facilities for producing a massive portion of jute bags instead of plastic bags.

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## **Chapter 1: INTERDUCTION**

### **: INTERDUCTION**

Plastic pollution is a growing problem in Bangladesh. Bangladesh was the first country to ban plastic bags, but there are no specific laws, rules or outlines for plastic waste management. Also, proper management and operation of the supply chain of recycling the plastic waste are absent. About 50 % of all plastic waste such as lightweight, single-use plastic products and packaging materials are not properly managed properly. So the rivers, are used for dumping corporation and domestic wastes that contain a massive amount of plastic and ultimately end up in the sea

### **Background**

proper legal framework and institutional structure to manage plastic waste is needed. This depends on the enforceability of the state laws , proper planning, proper policy and regulation, strict monitoring and a holistic approach from the sustainable waste management point of view. If the government wants to achieve all the Sustainable Development Goals (SDGs) and reduce environmental pollution, including proper solid waste management should be a major area of concern. Currently, the country is paying huge toll due to plastic pollution, but if it can be beaten, people will be more resilient to shocks and uncertainties, and development of the country will be accelerated.

### **PROBLEM STATEMENT**

1. when plastic was set to fire it may cause air pollution by emitting polluting gases;
2. NO rules or regulation about plastic recycling.
3. NO specific laws about plastic waste management.
4. Poor management system of plastic waste.
5. Plastic waste is thrown in the river and the final destination of this waste in the sea.
6. It causes serious pollution of the environment.

### **Importance of study:**

In Bangladesh there is no specific laws about plastic waste management. Plastic is a harmful products. As we know that plastic is a non biodegradable material. If peoples are not aware of the harmful effects of the pollution caused by the plastic waste. If we will not aware of the harm effect of plastic, in will be massive disaster for our environment.



**Research Question:**

How to reduce the pollution of plastic waste?

What is the importance of plastic waste management body?

How the plastic waste harms to the environment?

**OBJECTIVES****Primary object:**

The overall objective of the project is to reduce plastic in waste streams saving non-renewable resources and enabling carbon neutral energy production from waste.

**Secondary Object:**

Identifying the main challenges and barriers for reducing plastic waste in mixed waste and residual waste streams, hereby stimulating prevention and recycling of plastic waste Promoting recycling of plastic polymers as a substitute for virgin plastic Diverting waste plastic from the residual waste going to incineration (creating a carbon neutral energy).

**Methodology:**

Generally the research would coordinate with exploratory method. It is a combo package of both qualitative and quantitative research. The information and data have been collected from the **secondary source refers such as websites, journals case studies, annual report of various NGOs newspaper.**

**Conceptual Understanding:**

Plastic is a non-biodegradable products. So it is high time to adopt some specific laws and regulation about plastic waste management because it polluted the environment and harmful for our environment. Government should ban the plastic bag and producing jute bags instead of plastic bags.

## **Chapter 2: Conceptual Understanding.**

### **2.1: Meaning of recycle of plastic waste.**

- Plastic recycling means a procedure of recovering scarp or waste and reprocessing the material into useful things.

### **2.2: The amount of plastic waste in the oceans.**

- In the oceans about 8 million metric tons of plastic is thrown every year

### **2.3: The amount of plastic waste in thrown away in USA every year.**

- The amount of plastic waste is thrown in USA about 185 pounds of plastic each year.

### **2.4: The disadvantages of plastic.**

- There are some disadvantages of plastic.As they are –

a) It is really harmful for nature.

b) It causes environmental degradation because its non-biodegradability character.

c) Its melting point is very low.

d) Plastic is a non biodegradable products, because of its durability it does not mix with the soil.

### **2.5: The importance of reducing plastic waste.**

-Plastic is an important material for our economy by providing multiple profits to modern day. But plastic is a such kind of materials which is a non biodegrade and it may take thousands of years to biodegrade.

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### **Chapter 2.6: The amount of marine animals are died from plastic.**

- Because of plastics about 100 millions of marine animals are died.

### **Chapter 2.7: We should avoid plastic bags.**

Plastic bags are decomposed in nature .It captured the valuable space of land and it makes the place so dirty and emitting bad smells. Not only marine animals but also cattle's are died by eating plastic bags. Plastic polluted the environment. So we should avoid using plastic bags.

### **3: Effect of the pollution causes by plastic waste**

- In nature every things has a two effects. The one is positive effects and the second is negative effects. Though the plastic has some positive effects but it has a large number of negative effects. The main negative effects of the plastic is pollution. This pollution affects the environment, land, oceans and also humans.

#### **3.1: Effect on the environment.**

Plastic is extremely changeable due to some certain factors as they are wind and ocean currents. Plastics are being a decomposed products, it takes huge time like as thousands of years for melting. It is highly discomposed material and polluted the land, air, oceans. Thus the plastic polluted the environment.

#### **3.2: Effect on land**

Plastic can release extremely harmful chemicals adjoining into the soil and which can then seepage into ground water sources. It creates obstacle to the ecosystem of the environment. So it can dangerous harm to the species by drinking this pollute water. If the biodegradable plastic is break down it releases methane. The methane is a powerful greenhouse gas that speedily helps to increase global warming.

#### **3.3: Effect on oceans.**

In 2012, it was calculated that there was about 165 million tons of plastics in the oceans that polluted the oceans. Once a thesis calculated that 5 trillion pieces afloat at sea. Many marine animals are died by plastic pollution. It seriously affects the marine ecosystem and makes biological imbalance.

#### **3.4: Effect on animals.**

Plastic pollution has the dynamic poison that affects the animals so badly. plastic pollution has been explained a serious harmful substance to the massive marine mammals. A massive ratio of plastics has been found in the stomach of some marine species, such as sea-turtles.

#### **3.5: Effect on humans**

During the time of plastic productions, used a harmful chemical of additives .For this reason it has the dynamic injurious effects which could causes carcinogenic.

Due to diffuse of plastic materials maximum human populations are gradually blooming to the chemical materials of plastic. In USA about 95% of matured people had found out levels of BPA in their urine. This BPA can smash normal, psychological levels of sex hormones.

#### **Chapter 4: Real Plastic waste management scenario in Bangladesh**

In Bangladesh there is no specific national law for plastic waste management and also there is no law to ban the plastic bags. Few years ago, government took some steps to ban the plastic bags but it did not work after passing some months. In the absence of nation law nobody obeys the rules of plastics dumping, recycling, reuse or reproduction.

The waste management of Bangladesh is so poor if compared with other countries. Because of this poor management, many plastics such as plastics, glass, paper or perishable products are not managed separately. So many of the waste products are mixed into the soil and deep water.

**In urban areas**, though the city corporation fixed the specific are the dump the waste or plastic waste but there is lacking of proper plastic waste management. The final destination of this plastic wastes go to the river or canal or some places which are not dwelling place or after burring the open place, the fire was set .is seriously affect the environment.

**In rural areas**, being unawaressthey don't know the harmful effect of the plastic. There is a culture of throwing waste here and there. Especially the waste is thrown behind the living house or canals. There is no specific places to dump the waste as like City Corporation.

Bangladesh is the country of the rivers, canals and ponds. So the final destination of the plastic wastes has gone to the river.

## **Chapter 5: proper plastic waste management system.**

It is high time to develop the plastic waste management and adopt some rules, regulations, laws and techniques.

The price of thin plastic bags is very cheap and it is very hard to divide them. If the plastic bag is thick or thick and thick, then the price of this bag will increase and its use may be limited. Plastic manufactures Association and paper pickups can be taken to collect and destroy waste.

The government should take necessary steps immediately to ban the plastic bags. The use of plastic bags are banned In many countries.

It is not easy to manage the plastic waste with in short time. The plastic may be managed in some ways. As they are mentioned below-

- The government should make some specific laws for plastic waste management.
- The government should raise awareness among the people.
- Spread scientific study about harmful effect of the plastic by the government.
- Immediately banned the use of plastic bags by the government.
- Producing jute bags instead of plastic bags.
- Emphasis on producing a massive number of jute bags which can cover the needs of plastic bags.
- Media should take necessary steps to discourage the people to stop the use of plastic bags.
- Some products like as rice, wheat, fertilizer, sugar, fish and duck food should compulsory to package by jute bags.
- The government should producing jute bags or by the providing facilities to the private firm to produce jute bags with reasonable price.
- The government should impose fine in case of
  - First time use of plastic bags fine not more than 5,000 take
  - Second time use of plastic bags fine not mpore than 1,0000taka
  - Third time use of plastic bags fine not more than 500,000 take and imprisonment not more than 3 months.

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