

THE UNITED REPUBLIC OF TANZANIA

VICE-PRESIDENT'S OFFICE

GUIDELINES FOR MANAGEMENT OF HAZARDOUS WASTE

DIVISION OF ENVIRONMENT

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FOREWORD

Management of hazardous waste is gradually becoming an environmental and social challenge due to increasing volume and the associated inadequate management. The practice of mixing hazardous waste with municipal waste during collection in uncontrolled dump sites accentuates potential environmental and public health risks. This situation necessitates improved hazardous waste management mechanisms in the country. The effective management system can consists of safe methods to prevent and minimize waste generation, collection, storage, transportation, treatment and disposal of hazardous wastes. Notably, reducing and managing the waste generated in a cost-effective sound manner is widely encouraged.

Tanzania, has taken various initiatives towards addressing the challenge of hazardous waste including establishment of policies and legislations. Being a Party to the Basel Convention on the Control of Trans-boundary Movements of Hazardous Wastes and their Disposal and Bamako Convention on the Ban of the Import into Africa and the Control of Trans-boundary Movement of Hazardous Wastes within Africa, the country is also obliged to take necessary measures to ensure environmentally sound management of hazardous waste. Although these initiatives have been in place, challenges towards effective management and control of hazardous waste still exist.

Therefore, these Guidelines on Management of Hazardous Wastes have been prepared to serve as a quick reference on hazardous waste management so as to improve their management in the country. The Guidelines cover hazardous waste management hierarchy; brief overview of hazardous waste management practices in the country; legal framework as well as roles and responsibilities of different stakeholders; guidelines on management of hazardous waste; and administrative procedures for trans-boundary movements of hazardous waste.

The effective implementation of these guidelines is expected to enrich among others coordination, cooperation, consultation and information exchange among stakeholders towards achieving environmentally sound management of hazardous wastes in the country.

I therefore urge for your support, commitment and cooperation towards use of these guidelines in sustainable management of hazardous waste. It is my expectation that these Guidelines will serve and continue to be a valuable resource for users.

Hunse

Hon. Dr. Terezya Luoga Huvisa (MP) Minister of State – Environment Vice President's Office

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ABBREVIATIONS AND ACRONYMS

CBOS CFCS EEE EIA EMA ESM E-Waste GCLA HCW HIV ICAO IMDG IPM LGA NEP NGOS PBB PCBS PCDD PCDF PCT PNC POPS PCDF PCT PNC POPS PPE PVDF PVF SBC SIDP TAEC UN UNR URT VPO-DOE	Community Based Organizations Chlorofluorocarbons Electrical and Electronic Equipment Environmental Impact Assessment Environmental Management Act Environmental Wanagement Act Environmentally Sound Management Electronic Waste Government Chemist Laboratory Agency Health Care Waste Human Immuno Deficiency Virus International Civil Aviation Organization International Maritime Dangerous Goods Code Integrated Pest Management Local Government Authority National Environment Management Council National Environmental Policy Non Governmental Organizations Polybrominated Biphenyl Polychlorinated Dibenzo Dioxins Polychlorinated Dibenzo Dioxins Polychlorinated Dibenzo Furans Polychlorinated Dibenzo Furans Polychlorinated Terphenyl Polychlorinated Naphthalene Compounds Persistent Organic Pollutants Personal Protective Equipment Polyvinyl Fluoride Secretariat of the Basel Convention Sustainable Industrial Development Policy Tanzania Atomic Energy Commission United Nations United Nations Recommendations on the Transportation of Dangerous Goods United Republic of Tanzania Vice President's Office – Division of Environment
VPO-DoE WHO	Vice President's Office – Division of Environment World Health Organization

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DEFINITION OF TERMS

- **Competent Authority** The Governmental Authority designated by the State which is Party to the Basel Convention, for receiving the notification of a transboundary movement of hazardous wastes or other wastes, and any information related to it, and for responding to such a notification.
- **E-waste** This is a term used to cover almost all types of EEE that cannot be upgraded or repaired for re-use which are finally discarded and enter the waste stream. This includes computers, refrigerators and televisions, just to mention a few.
- **General** A notification which covers several shipments of hazardous wastes or other wastes, having the same physical and chemical characteristics and shipped regularly to the same Disposer via the same customs office for entry and exit, to be carried out during a maximum period of one year.
- Hazardous Hazardous waste means any solid, liquid, gaseous or sludge waste which by reason of its chemical reactivity, environmental or human hazardousness, its infectiousness, toxicity, explosiveness and corrosiveness is harmful to human health, life or environment.
- HazardousHandling of hazardous waste through collection, transport,
processing, recycling or disposal, in an effort to reduce their
effect on human health or the environment.
- **Incompatible** A waste unsuitable for mixing with another waste or material because it may result in a hazard such as fire, explosion, toxic fumes or flammable gases.
- **Movement** A document required to accompany the hazardous wastes or other wastes from the point at which a transboundary movement commences to the point of disposal. Each person who takes charge of a transboundary movement of hazardous wastes and other wastes must sign the movement document.
- **Notification** A document used to transmit, to the Competent Authorities of the States concerned, all the required information concerning any proposed transboundary movement of hazardous wastes and other wastes.

CHAPTER ONE:

INTRODUCTION

1.1 Background

Management of hazardous waste and other waste is a growing challenge due to their nature, increasing volume and associated health and safety risks. Tanzania like other developing countries faces the same challenges including; inadequate waste management technologies, economic difficulties and many competing development needs that makes hazardous waste management a low priority.

In addition, low public awareness and improper disposal of hazardous waste due to inadequate infrastructure and enforcement capacity necessary for proper hazardous waste management. The current trend of economic liberalization can exacerbate such a situation by resulting in the increase of the types, quantity and sources of hazardous wastes. Economic liberalization can also lead to the growth of industries and other economic establishments that produce hazardous wastes in areas that were previously reserved for other uses, for example in residential areas or near water sources. Population growth accompanied by economic development has also caused a massive increase in the generation of waste, including hazardous wastes.

The Environmental Management Act (EMA) (Cap. 191) provides for legal and institutional framework for environmental management in the country. The Act mandates the Minister responsible for Environment to make regulations prescribing the best possible ways of handling hazardous waste and other matters as provided in Section 133 (4) (a)-(h). These Guidelines have been prepared in respect of this legal basis to contribute in the efforts of improving hazardous waste management in the country.

1.2 Objectives of the Guidelines

The general objective of the Guidelines is to provide guidance for the environmentally sound management of hazardous waste in the country.

The specific objectives of the Guidelines are to:-

- i) Supplement the existing legal and policy framework and provide input for assessing requirements on amendments to relevant national policies and legislation on management of hazardous waste;
- ii) Elaborate legal requirements and administrative procedures for handling of importation, transportation and disposal of hazardous waste as provided in the Environmental Management (Hazardous Waste Control and Management) Regulations, 2009;
- iii) Promote environmentally sound management practices of hazardous waste; and
- iv) To facilitate awareness and understanding of key stakeholders in fulfilling effectively their roles in achieving environmentally sound management of hazardous waste.

1.3 Scope of the Guidelines

The Guidelines cover hazardous waste management hierarchy; brief overview of hazardous waste management practices in the country; legal framework as well as

roles and responsibilities of different stakeholders; guidelines on management of hazardous waste during segregation, storage, packaging, labelling, transportation, treatment and disposal; and administrative procedures for trans-boundary movements of hazardous waste.

1.4 Rationale for Development of the Guidelines

Hazardous waste can cause immediate, short-term and long term public health and environmental problems. However, indiscriminate practices such as mixing it with general municipal waste and low priority accorded to hazardous waste management poses potential risks to human health and the environment.

With the volume of hazardous waste in the country increasing coupled with limited resources and necessary infrastructure, the potential threats and risks are alarming. Therefore, improving capacity in management of hazardous waste at all levels is of paramount importance. These Guidelines were prepared to contribute in ensuring safe and environmental sound management of hazardous waste in the country.

1.5 Relationship with Relevant Policies and Legislation

The Guidelines should not be interpreted as replacing any existing national policies and legislation. These Guidelines were prepared with the view to ensuring their complementarily and mutual supportiveness with relevant national policies and legislation. Where gaps with existing policies and legislation occur, the Guidelines could be a useful input to review and improve such policies and legislation.

1.6 Target Audience

These Guidelines targets all those who are involved and/or affected in one way or other with the management of hazardous wastes. The Guidelines are intended for different target groups including the following:

- i) Local Government Authorities and other Regulatory Authorities responsible for controlling and monitoring hazardous waste;
- ii) Personnel working in the waste management industry (e.g. landfill, wastewater treatment facility and incinerator operators);
- iii) Industries
- iv) Custom Officers;
- v) Personnel working in industries generating hazardous waste;
- vi) Students in tertiary education level;
- vii) Media;
- viii) Environmental NGOs and CBOs; and
- ix) General public

CHAPTER TWO:

BASICS AND MANAGEMENT APPROACH FOR HAZARDOUS WASTE

2.1 Hazardous Waste

Hazardous wastes are generated as by-product in the course of operation of any industrial, commercial or institutional operation, and because of their chemical, physical or biological properties, they require special handling and disposal to prevent adverse impacts to human health and the environment.

Hazardous waste can either be solid, liquid and gaseous or sludge which by reason of its chemical reactivity, environmental or human hazardousness, its infectiousness, toxicity, explosiveness and corrosiveness is harmful to human health, life or environment. Generally, they are considered as hazardous waste if exhibits one or more of the characteristics listed in **Table 1**.

Table 1: List of Hazardous characteristics according to UN classification

UN Class	Code	Hazard Symbol	Characteristics
1	H1		Explosive
		EXPLOSIVES	An explosive substance or waste is a solid or liquid substance or waste (or mixture of substances or wastes) which is in itself capable by chemical reaction of producing gas at such a temperature and pressure and at such a speed as to cause damage to the surroundings.
3	H3		Flammable liquids
		FLAMMABLE 3	The word "flammable" has the same meaning as "inflammable". Flammable liquids are liquids, or mixtures of liquids, or liquids containing solids in solution or suspension (for example, paints, varnishes, lacquers, etc., but not including substances or wastes otherwise classified on account of their dangerous characteristics) which give off a flammable vapour at temperatures of not more than 60.5°C, closed-cup test, or not more than 65.6°C, open-cup test. (Since the results of open-cup tests and of closed-cup tests are not strictly comparable and even individual results by the same test are often variable, regulations varying from the above figures to make allowance for such differences would be within the spirit of this definition.)
4.1	H4.1		Flammable solids
			Solids, or waste solids, other than those classed as explosives, which under conditions encountered in transport are readily combustible, or may cause or contribute to fire through friction.
4.2	H4.2		Substances or wastes liable to spontaneous combustion
		COMBUSTIBLE 4	Substances or wastes which are liable to spontaneous heating under normal conditions encountered in transport, or to heating up on contact with air, and being then liable to catch fire.

UN Class	Code	Hazard Symbol	Characteristics
4.3	H4.3		Substances or wastes which, in contact with water emit flammable gases
		DANGEROUS IIP	Substances or wastes which, by interaction with water, are liable to become spontaneously flammable or to give off flammable gases in dangerous quantities.
5.1	H5.1		Oxidizing
		O XI DI ZER 51	Substances or wastes which, while in themselves not necessarily combustible, may, generally by yielding oxygen cause, or contribute to, the combustion of other materials.
5.2	H5.2		Organic Peroxides
		ORGANIC PEROXIDE	Organic substances or wastes which contain the bivalent-o-o-structure are thermally unstable substances which may undergo exothermic self-accelerating decomposition.
6.1	H6.1		Poisonous (Acute)
		POISON 6	Substances or wastes liable either to cause death or serious injury or to harm human health if swallowed or inhaled or by skin contact.

UN Class	Code	Hazard Symbol	Characteristics
6.2	H6.2		Infectious substances
		INFECTIONS SUBSTANCE	Substances or wastes containing viable micro organisms or their toxins which are known or suspected to cause disease in animals or humans.
8	H8		Corrosives
		CORROSIVE 8	Substances or wastes which, by chemical action, will cause severe damage when in contact with living tissue, or, in the case of leakage, will materially damage, or even destroy, other goods or the means of transport; they may also cause other hazards.
9	H10		Liberation of toxic gases in contact with air or water
			Substances or wastes which, by interaction with air or water, are liable to give off toxic gases in dangerous quantities.
9	H11		Toxic (Delayed or chronic)
			Substances or wastes which, if they are inhaled or ingested or if they penetrate the skin, may involve delayed or chronic effects, including carcinogenicity.
9	H12		Ecotoxic
		9	Substances or wastes which if released present or may present immediate or delayed adverse impacts to the environment by means of bioaccumulation and/or toxic effects upon biotic systems.
9	H13		Capable, by any means, after disposal, of yielding another material, e.g., leachate, which possesses any of the characteristics listed above.

2.2 Sources and Types of Hazardous Waste

The major sources of hazardous waste include industrial activities, agriculture and agro-industry, health care facilities, mining, commercial centres, domestic and the informal sector (refer Table 2). Agro-industry encompasses farming activities (including urban agriculture), livestock production, and agro-produce processing activities on which the hazardous waste fractions include pesticides, industrial fertilizers, veterinary products and animal carcasses. Hazardous waste generation from industries is critical due to their large geographical spread in the country, and the fact that the annual growth in hazardous waste generation can be directly linked to industrial growth.

Sector	Source	Hazardous waste
Agriculture	Production, formulation and use of pesticides and herbicides	Unused/obsolete pesticides and empty containers
Domestic	Storage, use and disposal of household items	Batteries and dry cells; furniture polishes; wood preservatives, stain removers; paint thinners; rat poisons; herbicides and pesticides; mosquito repellents; paints; disinfectants and fuels (including kerosene).
Energy	Electricity distribution	Oils from electrical equipment such as capacitors and transformers especially those containing Polychlorinated Biphenyls (PCBs).
	Petrol storage	Hydrocarbon sludges/ liquids
Mining and mineral processing	Mining extraction and processing	mine tailings
Health care facilities	Hospitals, dispensaries and health centres	Pathological waste; human blood and contaminated needles; pharmaceutical wastes
Service	Vehicle servicing and repair	Lubricating oils; used batteries; solvent wastes; paint wastes
Laboratories	Diagnostic and other laboratory testing	Spent solvents, unused reagents, reaction products, testing samples, contaminated materials
Small-scale Industry	Metal treating Photo-finishing Textile processing Printing Leather tanning Oil refining	Acids, heavy metals Solvents, acids, silver Cadmium, mineral acids Solvents, dyes, inks Solvents, chromium Spent catalysts
Large-scale Industry	Petrochemical manufacture Chemical/Pharmaceutical manufacture	Oily waste Tarry residues, solvents

Table 2: Typical Sources of Hazardous Waste

2.3 Health and Environmental Effects of Hazardous Waste

Hazardous wastes are substances capable of causing an array of adverse health effects, notably death, birth defects among humans and animals; cancer, neurobehavioural impairment including learning disorders; immune system changes; skin diseases; reproductive defects of exposed individuals as well as their offspring; and diseases such as endometriosis, increased incidence of diabetes and others.

Hazardous waste when improperly handled, they can release toxicants or pollutants from where they deposit into air, water, sediment and enter the food-chain. The associated pollutants or toxicants of hazardous wastes are distributed through the air and ocean currents – they travel long distances and enter into atmospheric processes, air–water exchange and cycles involving rain and dry particles. These processes lead to the exposure of even remote populations of humans and animals.

2.4 Environmentally Sound Management (ESM) of Hazardous Waste

Environmentally sound management (ESM) of hazardous waste is a broad policy concept without a clear universal definition. The Basel Convention on the Control of Trans-boundary Movements of Hazardous Waste and Their Disposal, defines ESM of hazardous wastes or other wastes as "taking all practicable steps to ensure that hazardous wastes or other wastes are managed in a manner which will protect human health and the environment against adverse effects which may result from such wastes" (Paragraph 8 - Article 2 of the Convention).

The Convention also requires each Party to take the appropriate measures to ensure the availability of adequate disposal facilities for the environmentally sound management of hazardous or other wastes, which shall be located, to the extent possible, within it, whatever the place of their disposal. The term disposal is broad as it includes also recovery and recycling. Lists of operations which are considered as disposal or recovery are presented in **Appendix I.**

The Convention further requires each Party to ensure that it takes such steps as are necessary to prevent pollution due to hazardous wastes and other wastes arising from its management and, if such pollution occurs, to minimize the consequences thereof for human health and the environment. In addition, the Basel Convention requires that hazardous wastes or other wastes, to be exported, are managed in an environmentally sound manner in the State of Import or elsewhere.

2.5 Hazardous Waste Management Hierarchy

In deciding on the appropriate approach for managing any waste there is a hierarchy for decision making which addresses issues such as sustainability, health, safety, and environmental protection. It is applied to existing or proposed practices, examining and testing these at each level, starting at the top of the hierarchy. For hazardous waste the hierarchy is as follows (Figure 1):

- i) Prevent the generation of hazardous waste;
- ii) Where elimination is not possible apply means and techniques to reduce the quantity of hazardous waste generated
- iii) Minimize amount of waste for disposal by recycling, reuse and/or recovery. This includes the recovery of energy which may be available from the waste.

- iv) Treat waste to stabilize, immobilize, contain or destroy hazardous properties.
- v) Dispose of residues with minimum environmental impact.
- vi) Appropriately contain, isolate and store hazardous waste for which no acceptable treatment or disposal option is currently available.



a) Waste Prevention, Minimization, Recycling and Re-use

Avoiding and reducing the waste which needs treatment and disposal should be an early objective for an effective system of hazardous waste management. This is in view of the difficulties and cost implication in handling of the hazardous wastes and the serious adverse impacts that may result from improper management of such wastes. In this regard, cleaner production techniques can be used in achieving waste prevention and minimization. This may include using non-hazardous raw materials in production processes or through product or process redesign or recycling or reuse of resources available in the waste and thereby prevents releases of hazardous substances into the environment by all routes, directly or indirectly. In many cases the introduction of cleaner production measures brings economic benefits in addition to savings in waste disposal costs.

b) Treatment

A treatment technology refers to those techniques which decompose or break down or extract or bond the hazardous material into non-hazardous constituents or reusable state or into a form which can be easily managed. A number of hazardous waste treatment technologies are currently available used either as pre-treatment prior to final disposal and /or disposal methods in their own right. . Whichever is the case, the aim is to modify the physical and/or chemical properties of the waste. They may be classified as technologies aimed at reducing volume (precipitation, dewatering, phase separation), immobilization of toxic components (solidification processes) or detoxification (thermal treatment by incineration, chemical treatment such as neutralization and biological treatment).

A particular technology is usually not appropriate for all hazardous waste, and the choice of the best practicable way of treating a given waste depends on many factors, including the availability and suitability of disposal or treatment facilities, safety standards and cost considerations.

c) Disposal

Final disposal of hazardous waste involves a number of options, but most involve disposal to land, if only for the residues from treatment processes. Properly designed, engineered and managed landfill may be used for disposal of hazardous wastes. Other option includes co-disposal with municipal where strict and careful operations need to be observed to prevent potential environmental pollution.

2.6 Storage and Transportation of Hazardous Waste

a) Storage

Particular care over the conditions of storage is essential including cool, dry, well ventilated conditions should be used for containerized waste. Containers or packages should not be stored in the open air or permeable surface or base material. All waste containers must be properly, unambiguously and indelibly labelled. Appropriate information for the emergency services should be displayed and emergency equipment such as protective clothing, breathing apparatus and fire extinguishers should be readily available.

b) Transportation

Safe transportation of hazardous waste from source or generator to storage or disposal is critical and needs careful planning, actual transportation and tracking. Requirements for transportation of hazardous waste by air, water, road and rail include classification of dangerous substances; packaging and labeling; suitability of the vehicle; proper training for drivers and other waste handlers; information (manifest) to be carried in the vehicle; and emergency procedures to be followed. Some of the key international instruments covering transportation of hazardous wastes include the following:

- i) Recommendations on the transport of dangerous goods (UNR);
- ii) International Civil Aviation Organization (ICAO) shipment by air;
- iii) International Maritime Dangerous Goods Code (IMDG) shipment by water;
- iv) United Nations Resolution on Traffic in Toxic and Dangerous Products and Wastes;
- v) Basel Convention on the Control of Transboundary Movements of hazardous wastes and Their Disposal; and
- vi) Bamako Convention Ban on the Import into Africa and Control of Trans-boundary Movements and Management of Hazardous Wastes within Africa

CHAPTER THREE:

OVERVIEW ON CURRENT MANAGEMENT PRACTICES OF HAZARDOUS WASTE

The current practices of hazardous waste management in the country depend on various factors, including the source, type and nature of the waste. Generally the hazardous waste generated in a considerable amount is from agricultural activities, industrial processes, health care, mining activities and imported second hand electronic and electrical equipment. In view of the limited capacity in terms of technology, human and financial resources leading to; inadequate enforcement of waste management laws and waste disposal facilities as a result the hazardous wastes are mostly disposed through the readily available means to the waste generator such as mixing with municipal waste; open dumping; incineration in Kiln plants and burning in self-designed incinerators.

3.1 Industrial Hazardous Waste

There are various categories of industries generating hazardous waste of which the amount, nature and management option depends on the type of the industrial operations. For example, paints and foam industries generates liquid waste mostly from cleaning operations of machines and mixing equipment. The hazardous liquid waste is either directly discharged in municipal ponds or sewerage system or contained in an on-site facility for treatment prior discharge. On the other hand, textile industries also generate liquid hazardous waste during production process. However, the management option is different from the latter as the waste are of large volume, thus requires special treatment facilities prior discharge. Some few industries have treatment ponds for the generated liquid waste. The challenge remains to those industries which do not have treatment facilities and discharge untreated liquid waste to the environment through municipal sewerage systems or near- by water streams.

Although, industries have liquid waste management options in place, the challenge still remain on inadequate regular monitoring of what is discharged to the environment, to whether meets the required hazardous liquid waste standards.

Majority of solid hazardous waste are generated from different sources including industrial operations, agricultural activities and pharmaceutical warehouses. The resulting wastes involve expired chemicals, pesticides and pharmaceuticals. Currently, these wastes are managed through containment and incineration or shipped to developed world whenever appropriate disposal options are not locally available.

Additionally, in some cases hazardous and non-hazardous wastes are often not segregated; hence are mixed together with municipal waste at disposal sites. Also there are minimal recovery and recycling activities for some types of industrial related waste materials.

3.2 Healthcare Waste (HCW)

The healthcare waste is generated in a wide variety of sources, starting from the hospital (a primary target), human and animal clinics, health centers, intermediate facilities, physician offices, research institutes (animal and human health) and homes (especially diabetic patients and HIV/AIDS patients. However, the mechanism to facilitate HCW management including expired drugs at ground level has not been fully instituted.

About 80% of the HCW generated is non infectious which can be disposed of as household waste. Hazardous and infectious waste accounts for the remaining 20%, of which the generation rate is about 0.41 kg/occupied bed per day for referral, regional and district hospitals or 0.03 kg/patient per day for health centres and dispensaries. Some of the medical facilities in Tanzania are characterized by inadequate and inappropriate waste disposal facilities.

3.3 Mining Waste

It is estimated that more than 12,500,000 tones of mining waste (overburden, tailings and waste rock excluding artisanal/small scale miners) is being generated annually from large scale mining activities. The nature of the waste varies considerably to include hazardous chemicals and highly toxic metals (mercury, lead, cadmium, arsenic, chromium, beryllium, silver, and thallium). However, waste generation by artisanal and small scale gold miners is uncontrolled as they lack awareness and capacity to manage mining waste. The waste generated which mainly constitutes tailing wastes and mercury contamination resulting from gold amalgamation is a threat to human health and the environment.

The current management practices of hazardous waste with exclusion artisanal and small scale gold miners include; recycling through back-filling excavated part of the rock or use in construction; disposing to the tailing storage facilities; piling of waste rocks and regeneration of natural vegetation.

3.4 Electronic Waste (e-waste)

Sorting or segregation of e-waste in general is non-existent in the country. The amount of e-waste generated is largely unknown. A crude estimate provides an indicative amount of e-waste generated in the country in the range of 18,000 - 33,000 tonnes annually. The amount of e-waste generated is considered to be far less than 0.5% of municipal solid waste generated in the country. However, regardless of its small quantity, the hazardous nature of the e-waste raises public concerns. Unfortunately, there are no functional schemes for management of e-waste in any of the Local Government Authorities in the country. In addition, the recovery and recycling of valuable materials from e-waste is very limited and is primarily informal (Figure 2). Also, there is no designated facility for environmentally sound treatment and/or disposal of e-waste in the country. This results into mixing of e-waste and municipal waste and thus accentuating risk to public health and the environment.



3.5 Contaminated Sites

Contaminated sites, spills and abandoned industries are often never remediated or restored to their original conditions, so they continue to be sources of pollution to groundwater and soil through leachate, to air by volatilization and to surface water by surface run-off.

A number of sites have been identified to be contaminated with pesticides and other hazardous chemicals such as PCBs mainly from leaking electrical equipment. Some of the contaminated sites include Vikuge farm (Coast Region) which served as storage sites for obsolete pesticides and an abandoned fertilizer plant in Tanga Region which has been a potential source of environmental pollution.

CHAPTER FOUR:

LEGAL AND INSTITUTIONAL FRAMEWORK FOR MANAGEMENT OF HAZARDOUS WASTE

4.1 Hazardous Waste Related Policies and Legislation

4.1.1 Hazardous Waste Related Policies

4.1.1.1 National Environmental Policy (NEP)

Tanzania adopted the National Environmental Policy (NEP) in December 1997. Since environmental management is multi-sectoral as well as multidimensional, the policy formulated is a framework document, which gives direction on elements to be considered in order to mainstream environmental matters into sectoral policies. The importance of environmental management for sustainable development has been clearly stipulated in the NEP.

The objectives of the Policy include ensuring sustainability, security, and equitable use of resources to meet the basic needs of the present population without compromising those of the future generations, without degrading the environment or risking health or safety. The policy also focuses on preventing degradation of land, water, vegetation and air, which are crucial elements for life. The policy advocates for development and application of environmentally friendly pest control methods, and underscores the need for promotion and application of environmentally friendly technologies such as recycling reuse and safe waste disposal.

4.1.1.2 National Health Policy of 2007

The National Health Policy is aimed at providing directions towards improvement and sustainability of the health status of all the people by reducing disability, morbidity and mortality, improving nutrition status and raising life expectance. The policy recognizes that, good health is the major resource essential for poverty eradication and economic development.

The policy has specific provisions for;

- promoting occupational health services whereby, the Ministry of Health and Social Welfare through implementation of this policy ensure worker's protection against all occupational hazardous which may occur in the work places such as industries, estates, plantations and other high risk institutions.
- Guidelines on proper disposal practices of waste/expired chemicals
- Adequate national capacity to ensure safety through management and control of chemicals and their products.
- Raising public awareness on safe chemical use and handling

4.1.1.3 Agricultural and Livestock Policy (1997)

The policy emphasizes on promotion of Integrated Pest Management (IPM) through plant protection and agricultural extension services. It also requires strengthening of agrochemicals registration and monitoring. However, the policy does not provide specific guide on Persistent Organic Pollutants (POP) Pesticides. This is due the fact that by the time of formulating of the policy POPs issues were not yet prominent. However, it stresses on implementation of IPM. Tanzania embarked on IPM programme since 1992 and to date pest management technologies packages for cotton, maize, coffee and vegetables have been developed together with farmers and are being implemented. This has resulted in reduced use of pesticides. Also various substitutes are already in use. These include chemical, biological and botanical pesticides.

4.1.1.4 The Sustainable Industrial Development Policy (1996-2020)

The Sustainable Industrial Development Policy (SIDP) gives a framework of broad on factors, which influence the direction of the country's industrialization process for the next 25 years. The national goals, towards which the industrial sector is geared, include human development and creation of employment opportunities, economic transformation for achieving sustainable growth, external balance of payments, environmental sustainability and equitable development. Under the section on "sound environmental management" the policy framework states that; "In order to ensure promotion of environmentally friendly and ecologically sustainable industrial development, the following will be implemented:

- (a) The government will carry out sensitization on environmental awareness in its broader application;
- (b) The government will forge deliberate and mandatory devices to reactivate legal mechanisms to enable involved institutions to be more effective in matters of environmental management;
- (c) An appropriate motivational mechanism will be provided within the Investment Promotion Act geared to cater for promotion of investments which contain anti-pollution programmes;
- (d) Environmental Impact Assessment (EIA) and appropriate mitigation measures will be enforced for all projects at implementation stage; and
- (e) The government will promote the continuous application, of an integrated preventive environmental strategy to industrial processes, products and services which will include propagating efficient use of raw materials and energy, elimination of toxic or dangerous materials, as well as reduction of emissions and wastes at source.

In this regard, the government will develop the capacity within its institutional machinery and support other initiatives designed to enhance application of cleaner production concept as an important complement to end-of-pipe pollution control. Therefore the policy promotes the reduction and eventual elimination of discharges/emissions of toxic chemicals. Therefore, issues of Polychlorinated Biphenyl (PCBs), Polychlorinated Dibenzo Dioxins (PCDD) and Polychlorinated Dibenzo Furans (PCDF) from industrial processes, can be covered in this respect.

4.1.1.5 National Energy Policy (2003)

The policy objectives are to ensure availability of reliable and affordable energy supplies and their use in a rational and sustainable manner in order to support national development goals. The policy therefore aims to establish an efficient energy production, procurement, transportation, distribution and end-use systems in an environmentally sound manner. The policy statements regarding environment, health and safety are: promoting environmental impact assessment as a requirement for all energy programmes and projects; promoting energy efficiency and conservation as a means towards cleaner production and pollution control; promoting development of alternative energy sources including renewable energies and wood fuel end-use efficient technologies to protect woodlands; promoting disaster prevention, response plans, and introducing standards for exploration, production, conversion, transportation, distribution, storage and fuel end-use.

4.1.1.6 National Water Policy – July 2002

Water is one of the most important agents to enable Tanzania achieve its Development Vision objectives (both social and economic), such as eradicating poverty, attaining water and food security, sustaining biodiversity and sensitive ecosystems. The revised National Water Policy and subsequent reviews and reforms of existing laws, institutional framework and structures are aimed at meeting the objectives of Water and the Tanzania 2025 Development Vision.

It is now more than ten years since the 1991 National Water Policy was launched. During this period, many changes have taken place in the sector with major emphasis on active participation of communities, private sector and local governments as the role of central government in services provision diminishes.

Tanzania signed Agenda 21, which is an outcome of United Nations Environment Meeting in Rio de Janeiro. The Agenda emphasized all nations to protect natural resources including water resources against pollution and conservation of the ecosystems. The Policy also emphasized that the Central Government has a responsibility of protecting water sources while environmental protection was not accorded its due importance.

4.1.2 Hazardous Waste Related Principal and Subsidiary Legislation

4.1.2.1 The Environmental Management Act No. 20 of 2004

The Act provides for legal and institutional framework for environmental management in the country. It mandates Local Government Authorities (LGAs) to issue and enforce guidelines and standards on management of hazardous waste.

It further prohibits import or export of hazardous waste without a permit issued by the Minister responsible for Environment. It further requires any movement of hazardous waste within and through the country be conducted in a manner that prevents or minimizes adverse effects to human health and the environment.

4.1.2.2 The Local Government (Urban Authorities) Act No. 8 of 1982 and the Local Government (District Authorities) Act No. 7 of 1982

The Acts mandate Local Government Authorities, among others, to facilitate provision of sanitation and waste management services. In this regard, the

management of hazardous waste is implicitly addressed although there is no specific reference to hazardous waste management issues.

4.1.2.3 The Industrial and Consumer Chemicals (Management and Control) Act of 2003

The Act provides for the management and control of the production, import, transport, export, storage, dealing and disposal of industrial and consumer chemicals in the country. The law provides for the registration, restrictions, prohibition and inspection of chemicals. Furthermore it has provisions for safe handling, chemical wastes, accidents; management of spills and contaminated sites and decommissioning of plants.

4.1.2.4 The Water Resources Management Act No. 11 of 2009

The main objective of the Act is to ensure that the nation's water resources are protected, used, developed, conserved, managed and controlled in ways that among others meets the basic human needs of present and future generations, prevents and controls pollution of water resources and protects biological diversity especially the aquatic ecosystems. Furthermore, it requires carrying out an Environmental Impact Assessment for any development in water resource areas or watershed.

4.1.2.5 The Water Supply and Sanitation Act No. 12 of 2009

The main objective of the Act is to ensure universal access to efficient, effective and sustainable water supply and sanitation services for all purposes by taking into account, among others, protection and conservation of water resources; and development and promotion of public health and sanitation.

4.1.2.6 The Public Health Act No. 1 of 2009

The Act provides for the promotion, conservation and maintenance of public health with a view of ensuring comprehensive functional and sustainable public health services. It prohibits disposal of hazardous waste on land or water body unless Environmental Health Impact Assessment is carried out.

4.1.2.7 The Plant Protection Act of 1997

The Act provides for prevention of the introduction and spread of harmful organisms, to ensure sustainable plant and environmental protection; to control the importation and use of plant protection substances; and to regulate export and imports of plants and plant products.

4.1.2.8 The Mining Act No 14 of 2010

The Act provides for regulation on prospecting and processing of, and dealing in minerals. The Act requires all holders of mining licenses to take appropriate measures for the protection of the environment in accordance with the Environmental Management Act including undertaking EIA in mining activities.

4.1.2.9 The Occupational Safety and Health Act of 2003

The Act provides for protection of worker's safety, health and their welfare at places of work as well as other persons at work against hazards to health and safety arising out of or in connection with activities of persons at work.

4.1.2.10 The Merchant Shipping Act No.21 of 2003

The Act provides for, among others, pollution prevention and protection of marine environment and marine security. It prohibits discharge of oil or oily mixture anywhere at sea unless under special circumstances.

4.1.2.11 The Merchandise Marks Act of 1963

The Act prohibits supply of fake products, unsafe products and those which do not meet specific standards some of which may otherwise fall under hazardous waste category.

4.1.2.12 Environmental Management (Hazardous Waste Control and Management) Regulations (2009)

The Regulations control all categories of hazardous waste and address generation, storage, transportation, treatment and disposal of hazardous waste and their movement into and out of Mainland Tanzania. They require hazardous waste management be guided by principles of environment and sustainable development namely, the precautionary principle; polluter pays principle; and the producer extended responsibility. The Regulations places responsibility to the generator of hazardous waste for the sound management and disposal of such waste and shall be liable for damage to the environment and injury to human health arising thereby. The regulations further recognizes management and control of pesticides, radioactive and industrial and consumer chemical waste to regulated under

respective legislation

4.2 Institutional Framework

4.2.1 Vice President's Office - Division of Environment

- i) Issue licenses and permits for hazardous waste covered under the Environmental Management (Hazardous Waste Control and Management) Regulations, 2009
- ii) Ensure environmentally acceptable management procedures, emission levels and disposal methods are maintained.
- iii) Coordinate and monitor the movement of hazardous waste from the generator to final disposal as described in the Environmental Management (Hazardous Waste Control and Management) Regulations, 2009.

4.2.2 National Environment Management Council (NEMC)

- i) Monitor management of hazardous wastes and emission levels of pollutants from major generation sources;
- ii) Enforce environmental quality standards;
- iii) Promote proactive compliance including training, provision of guidelines and awareness raising;
- iv) Continuously monitor safety and impacts on human health and environment of hazardous wastes and other wastes;
- v) Verify contingency plans and emergency preparedness in industrial facilities to integrate hazardous waste management;
- vi) Monitor management and remediation of contaminated sites; and
- vii) Regulate disposal of hazardous waste and sites contaminated with hazardous wastes as described in the Environmental Management (Hazardous Waste Control and Management) Regulations, 2009.

4.2.3 Tanzania Atomic Energy Commission (TAEC)

- i) Monitor and regulate the safe use of nuclear technology in the sectors of health, agriculture, animal production, industrial and non-destructive tests;
- ii) Control through registration and licensing of the importation, exportation, movement, possession or use of atomic energy and radiation sources;
- iii) Provide technical assistance in nuclear and radionuclide waste management;
- Formulate and enforce radioactive substances and waste management standards of safety for the protection of health and the minimization of danger to life and property;

4.2.4 Local Government Authorities (LGAs)

- i) Inventory of hazardous waste generation in their jurisdictions;
- ii) Enforcing hazardous waste related legislation, regulations and by-laws;
- iii) Facilitate provision of hazardous waste disposal facilities;
- iv) Responding to hazardous materials accidents or spills;
- v) Public awareness and education on hazardous waste management;

4.2.5 Government Chemist Laboratory Agency (GCLA)

- i. Regulate and coordinate management of industrial and consumer chemicals hazardous waste.
- ii. In collaboration with other stakeholders, ensure that risk reduction measures against industrial and consumer chemicals hazardous waste, including establishment of appropriate disposal facilities.

4.2.6 Generators/Owners of Hazardous Waste

- i) Is primarily responsible for management and eventual disposal of hazardous waste in environmentally sound manner.
- ii) To keep a complete record of the types, quantities and characteristics of hazardous waste
- iii) Submit quarterly reports to the respective regulatory authorities.
- iv) Ensure each container of hazardous waste must be properly labelled indicating, at the minimum:
 - date of which storage period begins
 - · composition and physical state of the waste
 - properties of the waste (e.g. flammable, reactive); and
 - name and address of the generator;
 - marked with the word "HAZARDOUS WASTE" both in English and Swahili
- v) Ensure that hazardous waste is stored in specified containers and follows conditions for proper storage, and conduct regular inspection. ;
- vi) To segregate hazardous waste at source from non-hazardous waste
- vii) Avoid placing incompatible hazardous waste into the same container;
- viii) Institute contingency plans and emergency preparedness;
- ix) Develop management plans and undertake remediation of contaminated sites
- x) At all times there are must be at least one employee either on the premises or on call with responsibilities for coordinating all emergency response measures
- xi) To dispose hazardous waste only at the notified/approved disposal facility
- xii) When transporting/moving hazardous waste off the premises, a Generator must;

- use only specified licensed transporters and facilities registered or permitted by NEMC or other relevant authorities
- Fulfil the pre- transport requirements before transporting hazardous waste.

4.2.7 Transporter of Hazardous Waste

- Obtaining registration license/permit from the Division of Environment–Vice President's Office or other relevant authorities for transporting hazardous waste (in addition to any other permits/licenses that may be required);
- ii) Transporting the wastes in appropriate containers and be transported only in the specified transport vehicles at all times;
- iii) Delivering the waste at designated points only;
- iv) Informing the Division of Environment–Vice President's Office, Local Government Authorities or other relevant authorities immediately in case of spillage, leakage or other accidents during transportation;
- v) Training the driver and other employees with regard to the emergency response measures to be taken during the transportation of hazardous waste;
- vi) Clean up in case of contamination;
- vii) Ensures that cleaning of vehicles should be carried out at places or where there are facilities to treat such wastewaters; and
- viii) To carry documents/manifest for the waste at all times during transportation.

4.2.8 Owner or Operator of Hazardous Waste Storage, Treatment and Disposal Facility

- i) Must apply to the Director of Environment VPO or other relevant authority to operate a waste disposal facility
- ii) Carry out Environmental Impact Assessment (EIA), prior to establishment of these facilities;
- iii) Obtain license/permit from VPo-DoE and Municipal Authorities or other relevant authorities;
- iv) Institute Environmental Management System (EMS) for each of the facility to help ensure compliance to relevant laws and regulations;
- v) Provide security to prevent accidental or unauthorized entry into the facility;
- vi) Maintain all containers so that they are in good condition, compatible with contents, closed except when adding or removing hazardous waste and managed to avoid rupture or leaks;
- vii) Provide secondary containment system for containers holding liquid hazardous waste to prevent releases of hazardous waste into the environment. Secondary containment is emergency short-term storage designed to hold leaks from hazardous waste management units.
- viii) Ensure the facility is inspected regularly, preferably on a weekly basis;
- ix) Ensure Occupational Health and Safety standards are adhered to by all workers within a facility.
- x) Must ensure post closure care for each waste storage, treatment, and or disposal facility begins after closure of the facility,
- xi) Ensure availability of area for the facility
- xii) Must specify types of wastes to be handled, stored, treated and or disposed
- xiii) Ensure facilities are available for managing of these wastes
- xiv) Ensure all effluent and ground water quality is monitored regularly.

CHAPTER FIVE:

WASTE SEGREGATION AND STORAGE

5.1 Source Segregation

For segregation to work effectively the following should be done:

- i) Do not mix waste hazardous waste with general (non-hazardous/municipal) waste;
- ii) Provide colour coded and labelled hazardous waste receptacles and should be positioned close to the point of hazardous waste generation;
- iii) The receptacles should be replaced when three-quarters fill;
- iv) The receptacles should be securely tied and appropriately labelled;
- v) Liquid or solidified hazardous waste should be placed in a rigid leak proof container; and
- vi) Arrangement to routinely and regularly transport hazardous waste from point of generation to storage area should be in place.

5.2 General Requirements for Hazardous Waste Storage

Hazardous waste should be stored so as to prevent or control accidental releases the environment by observing the following:

- Waste is stored in a manner that prevents the commingling or contact between incompatible wastes, and allows for inspection between containers to monitor leaks or spills. Examples include sufficient space between incompatibles or physical separation such as walls or containment curbs
- ii) Store in closed containers away from direct sunlight, wind and rain
- iii) The storage site should be at least 15m from site boundary (where possible).
- iv) The storage site must have impermeable base material so that it can contain waste materials in case of accidental leakages or spills.
- v) Secondary containment systems should be constructed with materials appropriate for the wastes being contained and adequate to prevent escape to the environment
- vi) Secondary containment should be provided wherever liquid wastes are stored in volumes greater than 1,000 liters.
- vii) The available volume of secondary containment should be at least 110 percent of the largest storage container, or 25 percent of the total storage capacity, whichever is greater in that specific location
- viii) Provide adequate ventilation where volatile wastes are stored.
- ix) During storage, height of stacked containers should be limited for safety purposes as will be prescribed by NEMC or other relevant authorities;
- x) The storage area should be provided with washing facilities to be used in case of accidental contact with hazardous waste;
- xi) The store should be equipped with absorbent material to help cleaning up in case of spills;
- xii) Preparing and implementing spill response and emergency plans to address their accidental release;
- xiii) Avoiding underground storage tanks and underground piping of hazardous waste, where possible.

5.2.1 Additional Storage Requirements

- i) Label each container to identify its contents;
- ii) Clearly identify (label) and demarcate the area, including documentation of its location on a facility map or site plan;
- iii) Provide drainage to prevent spills or leaks from leaving the site and to prevent run off from entering the site.
- iv) Segregate incompatible wastes by chemical compatibility to ensure safety of the public, workers and facility;
- v) The store should be in a secure area with controlled access. Only persons authorized to enter and trained in hazardous waste handling procedures should have access to the storage site.
- vi) Regular inspections should be carried out and recorded.
- vii) Containers should be placed so that each container can be inspected for signs of leaks or deterioration. Leaking or deteriorated containers should be removed and their contents transferred to a sound container;
- viii) Maintain a record of the type and amount of waste in storage; and
- ix) Storage sites have emergency response equipment appropriate for the hazardous waste stored on site.

5.2.2 Requirements for hazardous waste compatibility during storage

- i) Incompatible hazardous wastes should be segregated from one another during storage as well as transportation;
- ii) In some instances segregation of incompatible hazardous waste may be achieved through keeping some distances between incompatible hazardous waste; or by compartment storage

Figure 3: Hazardous Waste Compatibility among different categories and potential incompatibility risks

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5.2.3 Storage Options

- i) *Containers:* Most containers are suitable for many types of waste, from liquids, sludge to bulky solids. The most common hazardous waste container is the 200 Litre drum. Other examples of containers are tanker trucks, railroad cars, buckets and special bags.
- ii) *Tanks:* Tanks are widely used for storage or accumulation of hazardous waste because they can accommodate large volumes. Tanks can be used to contain hazardous waste at treatment, storage and disposal facilities.
- iii) Containment buildings: Containment buildings are completely enclosed, selfsupporting structures used to store or treat non-containerized hazardous waste.

CHAPTER SIX:

PACKAGING, LABELLING AND TRANSPORTATION OF HAZARDOUS WASTE

6.1 Packaging

- i) Hazardous wastes should be contained, packed or stored in a manner as provided under regulation 12 (2) of the Environmental Management (Hazardous Waste Control and Management) Regulations, 2009 or any other relevant laws and regulations.
- ii) Without prejudice of (i), the containers shall be capable of containing or storing the waste in an environmentally sound manner without any risks to human health and the environment, Figure 4 shows some of the recommended containers.
- iii) Every container which is used in the storage of hazardous wastes shall be labelled, and after use, be punctured and disposed of in a recommended manner.



6.2 Labelling

6.2.1 Types of labels

All containers must be clearly marked indicating waste type and hazard. There are two types of labels required and these are hazard labels and handling instruction labels. Hazard labels are in the shape of a square set at 45° and are required for most dangerous goods except for magnetized materials (Table 1 and Figure 5).

Handling instruction labels are available in various rectangular shapes and these are required in addition to hazard labels for some dangerous goods.



Figure 5: Labels on a hazardous waste containing drum indicating waste type and associated hazard

6.2.2 General requirements

- i) All hazardous waste containers and transport vehicles must be clearly marked with the contents indicated. The marking must be irremovable, waterproof and firmly attached (Figure 5).
- ii) Labels should be placed on the surface(s) of the package bearing the proper shipping name.
- iii) When more than one hazardous material is packaged in a container, more than one kind of label will be needed.
- iv) When hazardous materials having different hazard classes are packed within the same packaging, or within the same outside container or overpack, the outside container or over-pack must be labelled as required for each class of hazardous material contained therein.
- When two or more different labels are required, they must be displayed or affixed next to each other. One hazard label is required on a package for each hazard class.

6.2.3 Required details on the label

- Every container used for storage of hazardous wastes shall have a label written in English or Swahili language affixed onto it specifying the following:
 - a) identity of the hazardous waste;
 - b) name and address of the generator of wastes;
 - c) net contents;
 - d) normal storage stability and methods for safe storage;

- e) name and percentage by weight of other ingredients or half-life of radioactive material;
- f) warning or caution statements which may include all, some or any of the following as appropriate
 - i) the words "WARNING" or "CAUTION";
 - ii) the words "DANGER! Keep away from unauthorized persons";
 - iii) the words "POISON" (marked indelibly in red or white background);
 - iv) a pictogram of a skull and crossbones;
- g) a statement of first aid measures including the antidote when inhaled or ingested and a direction that a physician must be contacted immediately;
- h) adequate directions for handling should be included in accompanying leaflets including safety precautions in transporting, storage, and disposal of hazardous wastes and measures for cleaning any equipment used; and
- i) directions for the disposal of the container and hazardous wastes
- ii) Liquid hazardous materials must be packed with the closures of the inside packaging in the upright position.
 - Must have marking "THIS SIDE UP" or "THIS END UP" on the outside packaging.
 - Should use arrow symbol on the outside packaging to show upright orientation of packages.

6.3 General requirements for Transportation

- i) Use approved tanks and containers specially designed, in good condition, compatible with the waste and are adequately secured in the transport vehicle;
- ii) Adequately label all transport tanks and containers to identify the contents, hazards, and actions required in various emergency situations.
- iii) Transportation of hazardous waste should have a permit issued by the Director of Environment and local government or other relevant authority to contractors with approved vehicles and trained drivers;
- iv) Each vehicle carrying prescribed hazardous waste should be identified using the appropriate hazard symbols;
- v) The carrier must ensure that he has the necessary information on the wastes to be transported and has prepared an emergency plan in the event of spillage;
- vi) Carrying passengers is strictly prohibited and those associated with the waste handling should be permitted only in the cabin;
- vii) Vehicles transporting hazardous waste must have first aid equipment, fire extinguisher according to substance carried and trained personnel;
- viii) Drivers and handlers involved in transporting hazardous wastes must be suitably qualified and should observe the following:
 - not to smoke, take drugs or alcohol;
 - make inspections at set frequencies;
 - know emergency procedures;
 - attend cargo at all times;
 - not exceed permitted working hours; and
 - use personal safety equipment.

- ix) Training is required for drivers and hazardous waste handlers, and should be an ongoing process and not a single event.
 - The training should be provided within 90 days for new employees.
 - It should be repeated at two-year intervals for waste handlers while drivers must be trained annually.
 - It is strongly recommended that the training should be supported by written material for later reference and to be regularly updated.
- x) Personnel working with hazardous waste should be given regular medical examinations to check overall fitness. They should be also provided with immunization, good nutrition, first aid equipment and antidotes to toxic substances.

CHAPTER SEVEN:

TREATMENT AND DISPOSAL OF HAZARDOUS WASTES

Treatment and disposal of hazardous waste entails any process that changes the typical physical, chemical or biological characteristics of a waste to minimize its threat to health and environment.

7.1 Treatment

Hazardous waste treatment involves almost anything that can be done to a hazardous waste prior to disposal. Any method, technique or, process designed to change the physical, chemical, or biological character or composition of the hazardous waste, so as to neutralize the waste or to make the waste less hazardous and thereby safer for transport, increase potential for recovery, reuse or storage, or to reduce waste volume. The treatment methods might include among others precipitation, evaporation, filtration or iron exchange technology.

7.2 Disposal of Hazardous Waste

Disposal is the placement of hazardous waste with or without treatment in the designated facility which can permanently contain the waste and prevent the release of harmful substances. The most common hazardous waste disposal practices includes placement in the land disposal unit such as land fill, surface impoundment, waste pile, land treatment unit or injection well.

In the context of these guidelines, disposal of hazardous waste should follow the procedures provided in Annex II to these Guidelines:

7.2.1 General Requirements for Disposal of Hazardous Waste

- i) The generator is required to determine and follow the proper management method of the waste. Sources of assistance include:
 - Regulatory Authorities (VPO-DoE, NEMC and other relevant authorities)
 - Existing relevant legislation, regulations and guidelines.
- ii) Open burning of hazardous waste is not allowed.
- iii) Treated hazardous waste may be directed for land filling or to a municipal sewage system provided that the national effluent standards are met.
- iv) Different types of hazardous wastes should not be mixed together in the same container.
 - It is important to control the quality of any waste to ensure it can be recycled or disposed of properly.
 - Contaminating wastes with other wastes may prevent reuse/recycling options and increase disposal costs.
- v) Hazardous waste containers must be properly managed. In addition,
 - Containers should be emptied, to the greatest extent possible, using regular handling procedures, or by triple rinsing with an appropriate cleaning agent.
 - They should be rendered unusable by puncturing or crushing prior to disposal.
 - This is especially of concern for containers which could eventually be used for water or food storage.
 - Rinsing must be managed according to their waste characteristics.

CHAPTER EIGHT:

ADMINISTRATIVE PROCEDURES FOR HANDLING OF HAZARDOUS WASTES

8.1 Administrative Procedures for Tansboundary Movement of Hazardous Waste

8.1.1 National Focal Point and Competent Authority

The Department of Environment – Vice President's Office is the National Focal Point and Competent Authority for the operation of the prior informed consent procedure for the export, transit or other trans-boundary movement of hazardous waste in accordance with the provisions of the Basel Convention.

The Department closely liaise with the designated national authorities of other States under any international convention or arrangement to which the United Republic of Tanzania is a Party and international organizations. In addition, the Department disseminates information on hazardous and other wastes management to the public.

8.1.2 Export Permit

A person intending to export wastes from the United Republic should complete a movement document and submit it to the Director of Environment and a copy of the application to the Commissioner of Customs of the Tanzania Revenue Authority.

The Director should then submit to the Competent Authority of the Country of Import movement documents of the applicant 60 days before the date of export and pay fees for a movement document and import license prescribed under the Environmental Management (Fees and Charges) Regulations, 2007.

The Director shall issue a waste export license after considering the movement document form submitted. Where a license is issued, a copy of the license should be sent to Tanzania Revenue Authority by the Applicant for the necessary customs verification and control. It should be noted that an Export Permit will only be valid for the specific export transaction and not for any subsequent export transaction. The permit is not transferable.

The Director shall not grant a license to export hazardous waste where -

- a) the Applicant has the technical capacity or suitable disposal sites for disposing the waste in environmentally sound and efficient manner;
- b) the wastes in question are not required as raw material for recycling or recovery purposes in the country of import; and
- c) the export is not in accordance with an agreement or arrangement that conforms with the requirement of Article 11 of the Basel Convention.

The Director shall not grant a license for importation of hazardous waste where;

- a) the applicant does not have a technical capacity, and suitable facility for disposing the hazardous waste in an environmentally sound manner.
- b) the hazardous waste is not generated from African country of origin.

8.1.3 Transit of Hazardous Waste

Any person intending to transit hazardous waste destined for another country through the territory of Tanzania will require a valid Prior Informed Consent for such movement issued by the Director of Environment, the prescribed document for the trans-boundary movement of waste and any other documents prescribed by the Competent Customs Authority.

Any transit cargo of hazardous waste passing through Tanzania, for purpose of export or import, shall not be unloaded for repackaging. It shall also be escorted by officers under the Director of Environment, Custom Officers and any other officers that the Director of Environment may decide at the cost of the Importer or Exporter of the waste.

8.1.4 Port of Entry and Routes for Wastes

A licence issued should be only entitling the licensee to transport wastes through the customs points of entry designated in such a licence. No hazardous waste shall be transported by water in inland waters, except hazardous waste generated from islands within the territorial jurisdiction of the United Republic.

8.1.5 Insurance Cover or Guarantee.

Any export, transit or import of hazardous waste should be accompanied by an insurance cover or guarantee approved by the Director of Environment covering the risks likely to arise from exportation and importation of wastes.

8.1.6 Procedure for Trans-boundary Movements

The regulatory system and procedures for trans-boundary movements of hazardous wastes is based on the Basel Convention control system and consists of three key elements: **Notification, Consent** and the accompanying **Movement Document**.

i) Notification

A trans-boundary movement requires all Competent Authorities of countries concerned to be notified. The purpose of the notification is to provide the Competent Authorities of the countries concerned with detailed, accurate and complete information on the waste itself, on the proposed disposal operation, and other details relating to the proposed shipment (refer **Appendix II**). A notification usually covers only one type of waste, and may cover only one shipment. However, the notification may cover several shipments of wastes over a maximum period of one year, provided that the wastes in each shipment has the same physical and chemical characteristics and will be regularly shipped to the same Disposer via the same Customs offices for entry and exit.

Before the shipment can be allowed to start, the Generator and the Disposer must sign a contract for the disposal of the wastes. Upon conclusion of the contract, the Generator or Exporter should inform the Competent Authority of the Country of Export of this proposed movement. If the Competent Authority has no objection to this export, it will transmit a Notification Document to the Competent Authority of the Country of Import and the Competent Authorities of all Countries of Transit.

ii) Consent and Issuance of Movement Document

Úpon receipt of the Notification Document, the Competent Authority of the Country of Import must provide its written consent (the consent can be granted on the basis of certain conditions), or denial (after having asked for further clarifications, if necessary) to the Notifier. Often it will send copies of its final response to the Competent Authorities of all countries concerned.

The Competent Authority of the Country of Import must also confirm the existence of a contract between the Exporter and Disposer, specifying the environmentally sound management of the waste in question. The Competent Authority of any Country of Transit must acknowledge receipt of the Notification document, and provide its written consent to the Country of Export (with or without conditions), or denial, within a period of **sixty (60) days**.

Once the relevant Competent Authorities have established that all the requirements of the Convention have been met, and have agreed to the movement, the Competent Authority of the Country of Export can proceed with the issuance of the Movement Document (refer **Appendix IV**), which contains detailed information about the shipment, and authorize the shipment to start. The Movement Document must accompany the consignment at all times from the time of departure from the waste generator to the arrival of the consignment at the Disposer in another country. To ensure consistency between the information provided in the Notification Document and the Movement Document (and to reduce possible abuse), the duly completed Notification should always accompany the Movement Document.

iii) Confirmation of receipt of waste and disposal

Upon delivery of the waste at the Disposer's premises, the latter signs the Movement Document and returns it to the Competent Authority of the State of Export and to the Generator confirming the receipt of the hazardous waste in question (refer **Appendix IV**). Disposer must confirm when the disposal has taken place, according to the terms of the contract, as specified in the Notification Document. If the Competent Authority of the Country of Export has not received the confirmation that disposal has been completed, it must inform the Competent Authority of the Country of the Country of Import accordingly.

8.2 Administrative Procedures for Handling Hazardous Waste in the Country

8.2.1 License for Transportation or Storage of Hazardous Waste

Any person intending to transport or to store hazardous waste on his premises should submit application to the Director of Environment – Vice President's Office or respective authority.

The Director of Environment may issue a license for transportation of hazardous waste or for storage of hazardous waste where –

- a) he is satisfied that the applicant has adequate and appropriate facilities and equipment to transport or store hazardous waste on his premises without causing significant damage to public health and the environment;
- b) He is satisfied with the applicant's collection schedule of hazardous waste and, in the case of storage of hazardous waste, that premises are adequate

for storing the category of hazardous waste for which the license is required; and

c) He has published his intention to issue the license by notice in the *Gazette* and in one or more local newspapers of daily circulation in the United Republic **thirty days before** the issuance of licence.

A licensee to transport hazardous waste is obliged to ensure that -

- a) the collection and transportation of the hazardous waste is conducted in a manner that will not cause scattering of the waste;
- b) the vehicles for transportation and other means of conveyance of hazardous waste follows the approved scheduled routes from the point of collection to the disposal site or plant or facility;
- c) the personnel involved in the collection, transportation or storage of waste are provided with
 - i) adequate protective and safety clothing;
 - ii) adequate appropriate equipment or facilities for loading the waste;
 - iii) safe and secure facilities in the vehicles used for transporting waste; and
 - iv) Proper training and information.

A licensee to transport hazardous waste or store hazardous waste is also required to ensure that all employees involved in the collection, transportation or storage of hazardous waste undergo such annual medical check-up as may be commensurate to the risks faced by the employees and, on completion of the medical check-up, the licensee should submit a medical report of fitness in respect of each employee to the Director of Environment.

The Director of Environment may, at any time, subject the person involved in the collection, transportation or storage of waste to a medical check-up and the costs of the examination shall be borne by the licensee.

The license to be issued shall be **valid for one year** and may be renewed by the Director of Environment upon application.

8.2.2 Licence to Operate a Hazardous Waste Treatment Plant or Disposal Site

Any person intending to operate a hazardous waste treatment plant or disposal site or facility should submit dully filled application form to the Director of Environment or to the respective authorities.

A licensee to own or operate a hazardous waste disposal site or plant is obliged to ensure that -

- a) the hazardous waste treatment plant or disposal site should be created at least **one thousand (1,000) metres away** from a residential or commercial area and from water sources;
- b) the hazardous waste treatment plant or disposal site is enclosed and secure from unauthorized persons;
- c) the hazardous waste treatment plant or disposal site has hazard and safety signs displayed at appropriate places, indicating the treatment plant or disposal site and the nature of operations it carries out; and
- d) Hazardous waste is disposed of or treated in accordance with conditions laid down in the license or in accordance with guidelines issued by the Director of

Environment in consultation with other relevant Government departments or public institutions.

The licence to be issued shall be **valid for one year** and may be renewed by the Director of Environment upon application.

8.2.3 Licence for Disposal of Hazardous Wastes

Any person intending to dispose or treat hazardous waste should apply for a license by submitting dully filled application form to the Director of Environment and pay application fee prescribed under the Environmental Management (Fees and Charges) Regulations, 2008. In addition, the application should be accompanied by a copy of an Environmental Impact Assessment Certificate and an emergency plan.

The license to be issued shall be valid for one year and may be renewed by the Director of Environment upon application.

8.3 Reporting Procedures and Duty to Keep Records

8.3.1 Reporting Procedures

A person licensed to carry out any activity should submit bi-annual reports to the Director of Environment and other relevant authority.

8.3.2 Duty to Keep Records

The holder of a licence should-

- (a) Keep a record of the licensed activity and all transactions related to it; and
- (b) Submit the record to the Director of Environment at interval of six months.

APPENDICES

APPENDIX I: THE CATEGORIES OF WASTES (ADAPTED FROM THE BASEL AND BAMAKO CONVENTIONS)

LIST A: LIST OF HAZARDOUS WASTE

Wastes contained in this Annex are characterized as hazardous under Article 1, paragraph 1 (a), of Basel Convention.

A1 Metal and metal-bearing wastes

A1010	Metal wastes and waste consisting of alloys of any of the following:
i	Antimony
	Arsenic
1	Beryllium
	• Cadmium
1	• Lead
1	Mercury
	Selenium
1	Tellurium
1	Thallium
I	but excluding such wastes specifically listed on list B.
A1020	Waste having as constituents or contaminants, excluding metal waste in massive form, any of
A1020	the following:
1	Antimony; antimony compounds
1	 Beryllium; beryllium compounds
1	
1	Cadmium; cadmium compounds
1	Lead; lead compounds Salarium compounds
1	Selenium; selenium compounds
	Tellurium; tellurium compounds
A1030	Wastes having as constituents or contaminants any of the following:
1	Arsenic; arsenic compounds
I	Mercury; mercury compounds The lives of the live
A 1010	Thallium; thallium compounds
A1040	Wastes having as constituents any of the following:
1	Metal carbonyls
!	Hexavalent chromium compounds
A1060	Waste liquors from the pickling of metals
A1070	Leaching residues from zinc processing, dust and sludge such as jarosite, hematite, etc.
A1080	Waste zinc residues not included on list B, containing lead and cadmium in concentrations sufficient to exhibit Annex III characteristics
A1090	Ashes from the incineration of insulated conner wire
A1100	Duete and residues from gos elegning systems of conner emotions
A1110	Spent electrolytic solutions from copper electro refining and electro winning operations
A1120	Waste sludge, excluding anode slimes, from electrolyte purification systems in copper
	electrorefining and electrowinning operations
A1130	Spent etching solutions containing dissolved copper
A1140	Waste cupric chloride and copper cyanide catalysts
A1150	Precious metal ash from incineration of printed circuit boards not included on list B
A1160	Waste lead-acid batteries, whole or crushed
A1170	Unsorted waste batteries excluding mixtures of only list B batteries. Waste batteries not
	specified on list B containing Annex I constituents to an extent to render them hazardous
A1180	Waste electrical and electronic assemblies or scrap ¹ containing components such as
1	accumulators and other batteries included on list A, mercury-switches, glass from cathode-
1	ray tubes and other activated glass and PCB-capacitors, or contaminated with Annex I
	constituents (e.g., cadmium, mercury, lead, polychlorinated biphenyl) to an extent that they
1	possess any of the characteristics contained in Annex III (note the related entry on list B
	B1110) ²
, ,	

A1190 Waste metal cables coated or insulated with plastics containing or contaminated with	
PCB ³ , lead, cadmium, other organohalogen compounds or other Annex I constituer	ts to an
extent that they exhibit Annex III characteristics.	!

A2 Wastes containing principally inorganic constituents, which may contain metals and organic materials

A2010	Glass waste from cathode-ray tubes and other activated glasses
A2020	Waste inorganic fluorine compounds in the form of liquids or sludge but excluding such
	wastes specified on list B
A2030	Waste catalysts but excluding such wastes specified on list B
A2040	Waste gypsum arising from chemical industry processes, when containing Annex I
1	constituents to the extent that it exhibits an Annex III hazardous characteristic (note the
	related entry on list B B2080)
A2050	Waste asbestos (dusts and fibres)
A2060	Coal-fired power plant fly-ash containing Annex I substances in concentrations sufficient to
1	exhibit Annex III characteristics (note the related entry on list B B2050)

A3 Wastes containing principally organic constituents, which may contain metals and inorganic materials

A3010 Waste from the production or processing of petroleum coke and bitumen
A3020 Waste mineral oils unfit for their originally intended use
A3030 Wastes that contain, consist of or are contaminated with leaded anti-knock compound sludge
A3040 Waste thermal (heat transfer) fluids
A3050 Wastes from production, formulation and use of resins, latex, plasticizers, glues/adhesives
excluding such wastes specified on list B (note the related entry on list B B4020)
A3060 Waste nitrocellulose
A3070 Waste phenols, phenol compounds including chlorophenol in the form of liguids or sludge
A3080 Waste ethers not including those specified on list B
A3090 Waste leather dust, ash, sludge and flours when containing hexavalent chromium compounds
or biocides (note the related entry on list B B3100)
A3100 Waste paring and other waste of leather or of composition leather not suitable for the
manufacture of leather articles containing hexavalent chromium compounds or biocides (note
the related entry on list B B3090)
A3110 Fellmongery wastes containing hexavalent chromium compounds or biocides or infectious
substances (note the related entry on list B B3110)
A3120 Fluff - light fraction from shredding
A3130 Vaste organic phosphorous compounds
A3140 Waste non-halogenated organic solvents but excluding such wastes specified on list B
A3150 Waste halogenated organic solvents
A3160 Waste halogenated or unhalogenated non-aqueous distillation residues arising from organic
solvent recovery operations
A3170 Wastes arising from the production of aliphatic halogenated hydrocarbons (such as
chloromethane, dichloro-ethane, vinyl chloride, vinylidene chloride, allyl chloride and
epichlorhydrin)
A3180 Wastes, substances and articles containing, consisting of or contaminated with
polychlorinated biphenyl (PCB), polychlorinated terphenyl (PCT), polychlorinated naphthalene
(PCN) or polybrominated biphenyl (PBB), or any other polybrominated analogues of these compounds, at a concentration level of 50 mg/kg or more ⁴
A3190 Waste tarry residues (excluding asphalt cements) arising from refining, distillation and any
pyrolitic treatment of organic materials
A3200 Bituminous material (asphalt waste) from road construction and maintenance, containing tar
(note the related entry on list B, B2130)
Wastes which may contain either inorganic or organic constituents

A4 Wastes which may contain either inorganic or organic constituents

	Wastes from the production, preparation and use of pharmaceutical products but excluding
ן ן נ	such wastes specified on list B

A4020	Clinical and related wastes; that is wastes arising from medical, nursing, dental, veterinary, or
i I	similar practices, and wastes generated in hospitals or other facilities during the investigation
L	or treatment of patients, or research projects
A4030	Wastes from the production, formulation and use of biocides and phytopharmaceuticals,
	including waste pesticides and herbicides which are off-specification, outdated, ⁵ or unfit for their originally intended use
	Wastes from the manufacture, formulation and use of wood-preserving chemicals ⁶
A4050	Wastes that contain, consist of or are contaminated with any of the following:
	Inorganic cyanides, excepting precious-metal-bearing residues in solid form
l i	containing traces of inorganic cyanides
+	Organic cyanides
	Waste oils/water, hydrocarbons/water mixtures, emulsions
A4070	Wastes from the production, formulation and use of inks, dyes, pigments, paints, lacquers,
L	varnish excluding any such waste specified on list B (note the related entry on list B B4010)
	Wastes of an explosive nature (but excluding such wastes specified on list B)
A4090	Waste acidic or basic solutions, other than those specified in the corresponding entry on list B
 	(note the related entry on list B B2120)
A4100	Wastes from industrial pollution control devices for cleaning of industrial off-gases but
1	excluding such wastes specified on list B
A4110	Wastes that contain, consist of or are contaminated with any of the following:
1	Any congenor of polychlorinated dibenzo-furan
i 	Any congenor of polychlorinated dibenzo-dioxin
A4120	Wastes that contain, consist of or are contaminated with peroxides
A4130	Waste packages and containers containing Annex I substances in concentrations sufficient to
	exhibit Annex III hazard characteristics
A4140	Waste consisting of or containing off specification or outdated chemicals corresponding to
1	Annex I categories and exhibiting Annex III hazard characteristics
A4150	Waste chemical substances arising from research and development or teaching activities
	which are not identified and/or are new and whose effects on human health and/or the
1	environment are not known
A4160	Spent activated carbon not included on list B (note the related entry on list B B2060)

⁵ "Outdated" means unused within the period recommended by the manufacturer.

⁶ This entry does not include wood treated with wood preserving chemicals.

LIST B: NON HAZARDOUS WASTES

Wastes contained in this Annex will not be wastes covered by Article 1, paragraph 1 (a), of Basel Convention unless they contain schedule 1 material to an extent causing them to exhibit an Schedule 2 characteristics.

B1 Metal and metal-bearing wastes

B1010	Metal and metal-alloy wastes in metallic, non-dispersible form:
1	Precious metals (gold, silver, the platinum group, but not mercury)
1	Iron and steel scrap
1	Copper scrap
1	Nickel scrap
i	Aluminium scrap
1	Zinc scrap
1	Tin scrap
i .	Tungsten scrap
i	Molybdenum scrap
1	Tantalum scrap
1	Magnesium scrap
1	Cobalt scrap
i	Bismuth scrap
1	Titanium scrap
1	Zirconium scrap
i I	Manganese scrap
 	Germanium scrap
	Vanadium scrap
1	 Scrap of hafnium, indium, niobium, rhenium and gallium
1	Thorium scrap
i .	Rare earths scrap
i.	Chromium scrap
B1020	Clean, uncontaminated metal scrap, including alloys, in bulk finished form (sheet, plate, beams,
	rods, etc), of:
	Antimony scrap
1	Beryllium scrap
ļ	Cadmium scrap
1	 Lead scrap (but excluding lead-acid batteries)
1	
1	Selenium scrap Tallurium scrap
B1020	Tellurium scrap
B1030	Refractory metals containing residues Molybdenum, tungsten, titanium, tantalum, niobium and rhenium metal and metal alloy wastes in
B1031	metallic dispersible form (metal powder), excluding such wastes as specified in list A under entry
i i	A1050, Galvanic sludge
B1040	Scrap assemblies from electrical power generation not contaminated with lubricating oil, PCB or
I D I U4U	
B1050	PCT to an extent to render them hazardous
1000	Mixed non-ferrous metal, heavy fraction scrap, not containing Annex I materials in concentrations
P1060	sufficient to exhibit Annex III characteristics ⁸
	Waste selenium and tellurium in metallic elemental form including powder
B1070	Waste of copper and copper alloys in dispersible form, unless they contain Annex I constituents to
B4000	an extent that they exhibit Annex III characteristics
B1080	Zinc ash and residues including zinc alloys residues in dispersible form unless containing Annex I constituents in concentration such as to exhibit Annex III characteristics or exhibiting hazard
	constituents in concentration such as to exhibit Annex III characteristics or exhibiting hazard
B1000	Waste batteries conforming to a specification, excluding those made with lead, cadmium or
B1090	
B1100	Metal-bearing wastes arising from melting, smelting and refining of metals:
B1100	
!	Hard zinc spelter

	- Zing containing d			
	 Zinc-containing d Calvanizing 	rosses: slab zinc top dross (>	0.0% Zp)	
	- Galvanizing	slab zinc bottom dros	s (>92% 7n)	
I I I I		ing dross (>85% Zn)	3 (292 /0 ZII)	
1 I 1 I		anizers slab zinc dros	s (batch)(>92% 2	Zn)
1 I 1 I	- Zinc skimmir		- (
		nings (or skims) exclu	ding salt slag	
				refining not containing arsenic,
i i	lead or cadmium	to an extent that they	exhibit Annex III	hazard characteristics
i i				ting from copper smelting
i i		ous metals processing		ng
		tin slags with less th	an 0.5% tin	·
B1110	Electrical and electronic as			
		blies consisting only o	-	
I I I I				(including printed circuit boards)
				other batteries included on list A,
I I I I				her activated glass and PCB-
1 I 1 I				ts (e.g., cadmium, mercury, lead,
				n removed, to an extent that they Annex III (note the related entry
	on list A A1180)			Annex in (note the related entry
i i		ctronic assemblies (ir	cluding printed o	circuit boards, electronic
į į				d not for recycling or final
	•	wires) destined for di	iectieuse, 11 an	d hot for recycling of final
J	disposal12			
B1115	Waste metal cables coate	d or insulated with p	lactics not inclu	ded in list A1190, excluding those
БПІЗ				erations involving, at any stage,
	uncontrolled thermal proce			erations involving, at any stage,
B1120	Spent catalysts excluding			nv of:
I I I I	Transition metals,	Scandium	Titanium	
I I I I	excluding waste	Vanadium	Chromium	
1 I 1 I	catalysts (spent	Manganese	Iron	
1 I 1 I	catalysts, liquid used	Cobalt	Nickel	
1 I 1 I	catalysts or other	Copper	Zinc	1
	catalysts) on list A:	Yttrium	Zirconium	
		Niobium Hafnium	Molybdenum	
		Tungsten	Rhenium	
	Lanthanides (rare earth	Lanthanum	Cerium	
i I	metals):	Praseodymium	Neody	
1 I 1 I		Samarium	Europium	
1 I 1 I	1	Gadolinium	Terbium	
1 I 1 I		Dysprosium	Holmium	
		Erbium	Thulium	
<u> </u>	」 」	Ytterbium	Lutetium	L
B1130	Cleaned spent precious-m			,
B1140	Precious-metal-bearing res			
B1150	Precious metals and alloy			
B1160	dispersible, non-liquid form			ing (note the related entry on list A
01100	A1150)	ie incineration of prin		s (note the related entry on list A
B1170	Precious-metal ash from the	ne incineration of pho	tographic film	
B1180	Waste photographic film c			lver
B1190	Waste photographic paper			
B1200	Granulated slag arising fro	m the manufacture of	f iron and steel	1

B1210 Slag arising from the manufacture of iron and steel including slags as a source of TiO ₂ and vanadium	
B1220 Slag from zinc production, chemically stabilized, having a high iron content (above 20%) and	 1 1
processed according to industrial specifications (e.g., DIN 4301) mainly for construction	
B1230 / Mill scaling arising from the manufacture of iron and steel	
B1240 Copper oxide mill-scale	
B1250 Waste end-of-life motor vehicles, containing neither liquids nor other hazardous components	

B2 Wastes containing principally inorganic constituents, which may contain metals and organic materials

B2010	Wastes from mining operations in non-dispersible form:
	• Natural graphite waste
	• Slate waste, whether or not roughly trimmed or merely cut, by sawing or otherwise
	Mica waste
	Leucite, nepheline and nepheline syenite waste
	Feldspar waste
	Fluorspar waste
	Silica wastes in solid form excluding those used in foundry operations
B2020	Glass waste in non-dispersible form:
DECEC	Cullet and other waste and scrap of glass except for glass from cathode-ray tubes and
	other activated glasses
B2030	Ceramic wastes in non-dispersible form:
D2030	 Cermet wastes and scrap (metal ceramic composites)
	 Ceramic based fibres not elsewhere specified or included
B2040	• Other wastes containing principally inorganic constituents:
D2040	
	Partially refined calcium sulphate produced from flue-gas desulphurization (FGD)
	Waste gypsum wallboard or plasterboard arising from the demolition of buildings
	• Slag from copper production, chemically stabilized, having a high iron content (above
	20%) and processed according to industrial specifications (e.g., DIN 4301 and DIN 8201) mainly
	for construction and abrasive applications
	Sulphur in solid form
	• Limestone from the production of calcium cyanamide (having a pH less than 9)
	Sodium, potassium, calcium chlorides
	Carborundum (silicon carbide)
	Broken concrete
	Lithium-tantalum and lithium-niobium containing glass scraps
B2050	Coal-fired power plant fly-ash, not included on list A (note the related entry on list A A2060)
B2060	Spent activated carbon not containing any Annex I constituents to an extent they exhibit Annex III
	characteristics, for example, carbon resulting from the treatment of potable water and processes
	of the food industry and vitamin production (note the related entry on list A, A4160)
B2070	Calcium fluoride sludge
B2080	Waste gypsum arising from chemical industry processes not included on list A (note the related
	entry on list A A2040)
B2090	! Waste anode butts from steel or aluminium production made of petroleum coke or bitumen and
	cleaned to normal industry specifications (excluding anode butts from chlor alkali electrolyses and
	from metallurgical industry)
B2100	Waste hydrates of aluminium and waste alumina and residues from alumina production excluding
	such materials used for gas cleaning, flocculation or filtration processes
B2110	Bauxite residue ("red mud") (pH moderated to less than 11.5)
B2120	Waste acidic or basic solutions with a pH greater than 2 and less than 11.5, which are not
52120	corrosive or otherwise hazardous (note the related entry on list A A4090)
B2130	Bituminous material (asphalt waste) from road construction and maintenance, not containing tar
D2130	- Dituminus material (aspiral waste) from road construction and maintenance, not containing tai
	(note the related entry on list A, A3200)
3 Wastes	containing principally organic constituents, which may contain metals and inorganic materials
B3010	Solid plastic waste:

B3010	1 Solid plastic waste:	1
1	The following plastic or mixed plastic materials, provided they are not mixed with other wastes	-
i.	and are prepared to a specification:	i
1	• Scrap plastic of non-halogenated polymers and co-polymers, including but not limited to	i
1	the following ¹⁴	1
1	- ethylene	į
		-

¹³ The concentration level of Benzol (a) pyrene should not be 50mg/kg or more.

¹⁴ It is understood that such scraps are completely polymerized.

 polyethylene terephthalate butadiene polyacetals polyacetal polyacet		- styrene
 acrylonitrile butadiene polyacetals polybutylene terephthalate polybutylene terephthalate polybutylene terephthalate polybutylene sulphides acrylic polymers alkanes C10-C13 (plasticiser) polyutiters polybutylene (not containing CFCs) polyutyl acteate polybutyl acteate polybutyl acteate polyutyl acteate Cured waste resins polyutyl acteate Cured waste resins polyaridy acteate perfluora atteriate provide resins perfluora atteriate provide there acte on mixed with hazardous wastes: Waste and scrap of paper or paperboard of onther paper or paperboard of ocorrugated paper or paperboard 		- polypropylene
 builtadiene polyacitals polybutylene terephthalate polybutylene terephthalate polybutylene supphides acrylic polymers polybutylene sulphides acrylic polymers polybutylene sulphides acrylic polymers polyburghtene (pasticle) polyburghtene <		- polyethylene terephthalate
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	i	fibres (excluding flax, true hemp and ramie)

¹⁵ Post-consumer wastes are excluded from this entry:

- Wastes shall not be mixed

- Problems arising from open-burning practices to be considered

1	 Tow and waste (including yarn waste and garnetted stock) of sisal and other textile fibres
	of the genus Agave
1	 Tow, noils and waste (including yarn waste and garnetted stock) of coconut
I I	• Tow, noils and waste (including yarn waste and garnetted stock) of abaca (Manila hemp
1	or Musa textilis Nee)
1	 Tow, noils and waste (including yarn waste and garnetted stock) of ramie and other
1	vegetable textile fibres, not elsewhere specified or included
1	 Waste (including noils, yarn waste and garnetted stock) of man-made fibres
:	- of synthetic fibres
1	- of artificial fibres
1	Worn clothing and other worn textile articles
I I	 Used rags, scrap twine, cordage, rope and cables and worn out articles of twine,
1	cordage, rope or cables of textile materials
1	- sorted
	- other
B3035	Waste textile floor coverings, carpets
B3040	Rubber wastes The following materials, provided they are not mixed with other wastes:
I I	 Waste and scrap of hard rubber (e.g., ebonite)
1	 Other rubber wastes (excluding such wastes specified elsewhere)
B3050	Untreated cork and wood waste:
00000	 Wood waste and scrap, whether or not agglomerated in logs, briquettes, pellets or
1	similar forms
1	Cork waste: crushed, granulated or ground cork
B3060	Wastes arising from agro-food industries provided it is not infectious:
	Wine lees
I	 Dried and sterilized vegetable waste, residues and by-products, whether or not in the
I I	form of pellets, of a kind used in animal feeding, not elsewhere specified or included
1	Degras: residues resulting from the treatment of fatty substances or animal or vegetable
1	waxes
1	 Waste of bones and horn-cores, unworked, defatted, simply prepared (but not cut to
1	shape), treated with acid or degelatinised
I I	Fish waste
1	 Cocoa shells, husks, skins and other cocoa waste
1	Other wastes from the agro-food industry excluding by-products which meet national and
	international requirements and standards for human or animal consumption
B3065	Waste edible fats and oils of animal or vegetable origin (e.g. frying oils), provided they do not
	exhibit an Annex III characteristic
B3070	The following wastes:
I I	Waste of human hair
I I	Waste straw Departivated fungue mycelium from penicillin production to be used as animal food
	Deactivated fungus mycelium from penicillin production to be used as animal feed Waste paringe and agree of rubber
B3080	Waste parings and scrap of rubber Paring and other wastes of leather or of composition leather not suitable for the manufacture of
B3090	leather articles, excluding leather sludges, not containing hexavalent chromium compounds and
I I	biocides (note the related entry on list A A3100)
B3100	Leather dust, ash, sludges or flours not containing hexavalent chromium compounds or biocides
	(note the related entry on list A A3090)
B3110	Fellmongery wastes not containing hexavalent chromium compounds or biocides or infectious
00110	substances (note the related entry on list A A3110)
B3120	Wastes consisting of food dyes
B3130	Waste polymer ethers and waste non-hazardous monomer ethers incapable of forming peroxides
B3140	Waste pneumatic tyres, excluding those destined for Annex IVA operations
20170	

B4 Wastes which may contain either inorganic or organic constituents

B4010 Wastes consisting mainly of water-based/latex paints, inks and hardened va organic solvents, heavy metals or biocides to an extent to render them haza related entry on list A A4070)	
B4020 Wastes from production, formulation and use of resins, latex, plasticizers, gl	
listed on list A, free of solvents and other contaminants to an extent that the	
III characteristics, e.g., water-based, or glues based on casein starch, dextri	n, cellulose ethers,
polyvinyl alcohols (note the related entry on list A A3050)	
B4030 Used single-use cameras, with batteries not included on list A	

WASTE STREAMS

Y1	Clinical wastes from medical care in hospitals, medical centers and clinics
Y2 Y3	Wastes from the production and preparation of pharmaceutical products
Y3	Waste pharmaceuticals, drugs and medicines
Y4	Wastes from the production, formulation and use of biocides and phytopharmaceuticals
Y5	Wastes from the manufacture, formulation and use of wood preserving chemicals
Y6	Wastes from the production, formulation and use of organic solvents
Y7	Wastes from heat treatment and tempering operations containing cyanides
Y8	Waste mineral oils unfit for their originally intended use
Y9	Waste oils/water, hydrocarbons/water mixtures, emulsions
Y10	Waste substances and articles containing or contaminated with polychlorinated biphenyls (PCBs) and/or
	polychlorinated terphenyls (PCTs) and/or polybrominated biphenyls (PBBs)
Y11	Waste tarry residues arising from refining, distillation and any pyrolytic treatment
Y12 Y13	Wastes from production, formulation and use of inks, dyes, pigments, paints, lacquers, varnish
Y13	Waste from production, formulation and use of resins, latex, plasticizers, glues/adhesives
Y14	Waste chemical substances arising from research and development or teaching activities which are not
!	identified and/or are new and whose effects on man and/or the environment are not known
Y15	Wastes of an explosive nature not subject to other legislation
Y16	Wastes from production, formulation and use of photographic chemicals and processing materials
Y17	Wastes resulting from surface treatment of metals and plastics
Y18	Residues arising from industrial waste disposal operations

Wastes having as constituents:

Y19	Metal carbonyls
Y20	Beryllium; beryllium compounds
Y21	Hexavalent chromium compounds
Y22	Copper compounds
Y23	Zinc compounds
Y24	Arsenic; arsenic compounds
Y25	Selenium; selenium compounds
Y26	Cadmium; cadmium compounds
Y27	Antimony; antimony compounds
Y28	Tellurium; tellurium compounds
Y29	Mercury; mercury compounds
Y30	Thallium; thallium compounds
Y31	Lead; lead compounds
Y32	Inorganic fluorine compounds excluding calcium fluoride
Y33	Inorganic cyanides
Y34	Acidic solutions or acids in solid form
Y35	Basic solutions or bases in solid form
Y36	Asbestos (dust and fibres)
Y37	Organic phosphorus compounds
Y38	Organic cyanides
Y39	Phenols; phenol compounds including chlorophenols
Y40	Ethers
Y41	Halogenated organic solvents
Y42	Organic solvents excluding halogenated solvents
Y43	Any congenor of polychlorinated dibenzo-furan
Y44	Any congenor of polychlorinated dibenzo-p-dioxin
Y45	Organohalogen compounds other than substances referred to in this Annex (e.g. Y39, Y41, Y42, Y43, Y44)

CATEGORIES OF WASTES REQUIRING SPECIAL CONSIDERATION

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ANNEX I: DISPOSAL OPERATIONS (BASEL CONVENTION)

A. Operations which do not lead to the possibility of resource recovery, recycling, reclamation, direct re-use or alternative uses

Section A encompasses all such disposal operations which occur in practice.

- D1 Deposit into or onto land, (e.g., landfill, etc.)
- D2 Land treatment, (e.g., biodegradation of liquid or sludgy discards in soils, etc.)
- D3 Deep injection, (e.g., injection of pumpable discards into wells, salt domes of naturally occurring repositories, etc.)
- D4 Surface impoundment, (e.g., placement of liquid or sludge discards into pits, ponds or lagoons, etc.)
- D5 Specially engineered landfill, (e.g., placement into lined discrete cells which are capped and isolated from one another and the environment, etc.)
- D6 Release into a water body except seas/oceans
- D7 Release into seas/oceans including sea-bed insertion
- D8 Biological treatment not specified elsewhere in this Annex which results in final compounds or mixtures which are discarded by means of any of the operations in Section A
- D9 Physico chemical treatment not specified elsewhere in this Annex which results in final compounds or mixtures which are discarded by means of any of the operations in Section A, (e.g., evaporation, drying, calcination, neutralization, precipitation, etc.)
- D10 Incineration on land
- D11 Incineration at sea
- D12 Permanent storage (e.g., emplacement of containers in a mine, etc.)
- D13 Blending or mixing prior to submission to any of the operations in Section A
- D14 Repackaging prior to submission to any of the operations in Section A
- D15 Storage pending any of the operations in Section A

B. Operations which may lead to resource recovery, recycling reclamation, direct re-use or alternative uses

Section B encompasses all such operations with respect to materials legally defined as or considered to be hazardous wastes and which otherwise would have been destined for operations included in Section A

- R1 Use as a fuel (other than in direct incineration) or other means to generate energy
- R2 Solvent reclamation/regeneration
- R3 Recycling/reclamation of organic substances which are not used as solvents
- R4 Recycling/reclamation of metals and metal compounds
- R5 Recycling/reclamation of other inorganic materials
- R6 Regeneration of acids or bases
- R7 Recovery of components used for pollution abatement
- R8 Recovery of components from catalysts
- R9 Used oil re-refining or other reuses of previously used oil
- R10 Land treatment resulting in benefit to agriculture or ecological improvement
- R11 Uses of residual materials obtained from any of the operations numbered R1-R10
- R12 Exchange of wastes for submission to any of the operations numbered R1-R11
- R13 Accumulation of material intended for any operation in Section B

APPENDIX II: NOTIFICATION FORM (BASEL CONVENTION)

1. Exporter (name, address):		3. Notification concerning (1):	
		A (i) Single Movement	B (i) Disposal (no recovery)
		(ii) General notification	(i) Recovery operation
Contact person:	Tel:	(multiple movements)	
	Fax/Telex:	C Pre-authorized recovery facility (1)	Yes No
Reason for export:		Facility Registration Number (if Yes)	
2. Importer (name, address):			recovery facility located in an OECD State)
		4. Total intended number	5. Estimated quantity (3)
		of shipments	kg
			litres
Contact person:	Tel: Fax/Telex:	6. Intended date(s) or period of time for	or shipment(s)
7. Intended carrier(s)* (name, add	dress) (2):	8. Disposer (name, address)	
Contact person:	Tel:		
10 Wasta ganaratar(a) (nome add	Fax/Telex:	Contact norson	Tal
10. Waste generator(s) (name, addr	(ess) (2):	Contact person: Actual site of disposal:	Tel: Fax/Telex:
		9. Method(s) of disposal:	
Contact person:	Tel:	D code / R code (4):	- · · · ·
Site of generation & process:	Fax/Telex:	Technology employed (Attach details if 11. Mode(s) of transport (4):	12. Packaging Type(s) (4):
Sile of generation & process.			12. Fachaging Type(3) (4).
13. (i) Designation and chemical c	composition of the waste	(ii) Special handling requirements	14. Physical characteristics
15. Waste identification code			17. Y-number (4):
in country of export:		VIC:	10 Haumhan (A)
in country of import: Customs Code H.S:		WC: ther (specify):	18. H-number (4):
16. OECD classification (1):		9. (i) UN identification:	(ii) UN class (4):
amber red	and number:	UN Shipping name:	
	tach details)		
20. Concerned states, code numbe State of Export	r of Component authorities, and sp	ecific points of entry and exit: States of transit	State of Import
			· · · · · · · · · · · · · · · · · · ·
21. Customs offices of entry and/or	r departure (European-Community)		
Entry			mplete and correct to my best knowledge. I also certify that obligations have been entered into and that any applicable
			are or shall be in force covering the transboundary
		movement.	
Departure:	22. Number of annexes attached	Name:	Signature:
	attacheu		Signature.
		Date:	
For use by competent authorities			
24. To be completed by	- Import (EEC, OECD)	25. Consent to the movement provided	by the Competent Authority of (country):
Notification received on:	- transit (Basel)	Consent given on:	Consent expires on:
		ourson given on.	
Acknowledgment sent on:		Specific conditions (1):	Yes. See block 26 overleaf/annex
			No.
Name of Competent Authority,		Name of Competent Authority,	
stamp and/or signature:		stamp and/or signature:	
	appropriate box	(2) Attach a list if more than o	ne (3) Attach a
list if multiple sl	hipment (4) Se	e codes on the reverse	

LIST OF ABBREVIATIONS USED IN THE NOTIFICATION FORM

DISPOSAL (NO RECOVERY) (Block 9)				RECOVERY OPERATIONS (Block 9)		
D1 D2 D3 D4 D5 D6 D7 D8 D9 D10 D11 D12 D13 D14	 D2 Land treatment, (e.g., biodegradation of liquid or sludgy discards in soils, etc) D3 Deep Injection, (e.g., injection of pumpable discards into wells, salt domes or naturally occurring repositories, etc.) D4 Surface impoundment, (e.g., placement of liquid or sludge discards into pits, ponds or lagoons, etc) D5 Specially engineered landfill, (e.g., placement onto lined discrete cells which are capped and isolated from one another and the environment, etc) D6 Release into water body except seas/oceans D7 Release into seas/oceans including sea-bed insertion D8 Biological treatment not specified elsewhere in this list which results in final compounds or mixtures which are discarded by means of any operations number D1 to D12 D9 Physico-chemical treatment not specified elsewhere in this list which results in final compounds or mixtures which are discarded by means of any operations numbered D1 to D12, (e.g., evaporation, drying, calcination etc.) D10 Incineration on land D11 Incineration at sea D12 Permanent Storage, (e.g., emplacement in containers in a mine, etc.) D13 Blending or mixing prior to submission to any of the operations number D1 to D12 D14 Repackaging prior to submission to any of the operations number D1 to D12. 			 RECOVERY OPERATIONS (BIOCK 9) R1 Use as a fuel (other than in direct incineration) or other means to generate energy R2 Solvent reclamation/regeneration R3 Recycling/reclamation of organic substances which are not used as solvents R4 Recycling/reclamation of metal compounds R5 Recycling/reclamation of other inorganic materials R6 Regeneration of acid or bases R7 Recovery of components from used for pollution abatement R8 Recovery of components from catalysts R9 Used oil re-refining or other reuses of previously used oil R10 Land treatment resulting in benefit to agricultural or eco- logical improvement R11 Uses of residual material obtained from any of the operations numbered R1 to R10 R12 Exchange of wastes for submission to any of the operations numbered R1 to R11 R13 Accumulation of material intended for any operations numbered R1 to R12 		
R T S A W 1 2 3 4	Storage pending any of the operations D1 to D12. MODES OF TRANSPORT (Block 11) Road Train/Rail Sea Air Inland Waterways PHYSICAL CHARACTERISTICS (Block 14) Powdery/powder Solid Viscous/paste Sludgy	1 2 3 4 5 6 7 8 9 5 6 7	PACKAGING TYPES (Block 12) Drum Wooden Barrel Jerrican Box Bag Composite Packaging Pressure receptacle Bulk Other (Specify Liquid Gaseous Other (specify)	1 4.1 4.2 4.3 5.1 5.2 6.1	1 H4.1 Inflammable solids 2 H4.2 Substances or wastes liable to spontaneous combustion 3 H4.3 Substances or waste which, in contact with water, emit inflammable gases 1 H5.1 Oxidizing 2 H5.2 Organic peroxides 1 H6.1 Poisonous (acute) 2 H6.2 Infectious substances H8 Corrosives H10 Liberation of toxic gases in contact with air or water H11 Toxic (delayed or chronic) H12 Ecotoxic	
26.	Y numbers (block 17) refer to categories of waste lis an instruction manual available from the Secretariat SPECIFIC CONDITIONS ON CONSENTING TO TH	of th	e Basel Convention.	Dn. T	These codes, as well as more detailed information can be found in	

APPENDIX III: MOVEMENT DOCUMENT (BASEL CONVENTION)

1 i) Exporter (name, address)		3 Corresponding to	
		Notification:	of shipment
Contact person:	Tel:	Movement subjec	t of (1) single notification
	Fax/Telex:	8. Disposal (name,	ç
1 ii) Waste generator (name, address) (1)			
Contact person:	Tel:	Contact person:	Tel: Fax/Telex:
	Fax/Telex:	Actual site of disposal:	
Site of generation:			
2. Importer (name, address)		9. Method(s) of disp	
		D code / R code (3 Technology Emplo	
Contact person:	Tel:	reenhology Emple	you .
E lot Carrier (name addresse):	Fax/Telex:	*(Attach details if r	
5. 1st Carrier (name, address):	6. Zhu Carri	er (name, address) (4):	7. Last carrier (name, address):
Degistration No.	Registration N	0 .	Degistration No.
Registration No: Tel: Fax/Telex:	Tel:	Fax/Telex:	Registration No: Tel: Fax/Telex:
10. Identity of means of transport (3)	11. Identity c	f means of transport (3)	12. Identity of means of transport (3)
Date of transfer:	Date of transfe		Date of transfer:
Signature of Carrier's Representative	Signature of C	arrier's Representative	Signature of Carrier's Representative
12 Decignation and chemical composition	on of the weste		14 Dhysical characteristics (2)
 Designation and chemical composition 	IT OF THE WASTE		14. Physical characteristics (3)
			17. Actual quantity 18. Packages (2)
15. Waste identification code	11440		kg Type:
in country of export:	IWIC:		litres Number:
in country of import:	EWC:		19. UN Classification
Customs code (H.S.):	Other (specify):		UN Shipping Name:
16. OECD Classification(1)	,		UN Identification:
amber	red		UN class (3):
other	and number		H Number (3): Y Number:
 Special handling instructions (includi case of accidents) 			above is complete and correct to the best of my knowledge. I also
·····,	certify that legally-e	enforceable written contractual obligati	ons have been entered into, that any applicable insurance or other
		s are in force covering the transbound ompetent authorities of the States cor	lary movement, and that all necessary authorizations have been
21. Actual date of shipment	Name	Signature:	icenieu.
	Date:		
TO BE COMPLETED BY IMPORTER/DISPO 23. Shipment received by Importer on (if			25. I certify that the disposal/recovery of the waste
Quantity received:	kg/litres	accepted	described above has been completed.
Date:		rejected(5)	
Name:	Signature:		Date:
24 Shipment received at Disposer on:	ka/litroo		Name:
Quantity received: Date:	kg/litres	accepted	Signature and Stamp:
Name:	Signature:	rejected(5)	
Approximate date of disposal:	olginataro.		
Method of disposal:			
(1) Attach list, if more	e than one	(2) Enter X in app	propriate boxes (3)

(1) Attach list, if more than one
 (2) Enter X in appropriate boxes
 See codes on the reversed in (4) If more than three carriers attach information as require blocks 6 and 11
 (5) Immediately contact Competent Authority

LIST OF ABBREVIATIONS USED IN THE MOVEMENT DOCUMENT

	ISPOSAL (NO RECOVERY) (Block 9)				ATIONS (Block 9)		
U	ISPOSAL (NO RECOVERT) (DIOLK 9)		RECON	EKT OPER	ATIONS (BIUCK 9)		
D1 D	Deposit into or onto Land, (e.g., Landfill, etc.)	R1			than in direct incin	eration) or other mean	s to
	and treatment, (e.g., biodegradation of liquid or sludgy discards in soils, etc) beep Injection, (e.g., injection of pumpable discards into wells, salt domes or	R2		te energy	/regeneration		
n n	aturally occurring repositories, etc.)	R3	Recycli	ng/reclamati	ion of organic subst	ances which are not us	sed as
D4 S	urface impoundment, (e.g., placement of liquid or sludge discards into pits,		solvent	S	-		
р	onds or lagoons, etc)	R4			on of metal compo		
D5 S	pecially engineered landfill, (e.g., placement onto lined discrete cells which re capped and isolated from one another and the environment, etc)	R5 R6		ng/reclamati eration of aci	on of other inorgan	ic materials	
	Release into water body except seas/oceans	R7				r pollution abatement	
D7 R	elease into seas/oceans including sea-bed insertion	R8	R8 Recovery of components from catalysts				
	liological treatment not specified elsewhere in this list which results in final	R9			or other reuses of p		-1
	ompounds or mixtures which are discarded by means of any operations umber D1 to D12	R10	improve		utting in benefit to a	gricultural or eco- logic	al
	hysico-chemical treatment not specified elsewhere in this list which results in fin	al R11			aterial obtained fron	n any of the operations	
C	ompounds or mixtures which are discarded by means of any operations D1 to		number	red R1 to R1	0		
	umbered D12, (e.g., evaporation, drying, calcination etc.) ncineration on land	R12	Exchan R1 to R		s for submission to	any of the operations r	umbered
	ncineration on land	R13			terial intended for a	any operations number	ed R1 to R2
D12 P	ermanent Storage, (e.g., emplacement in containers in a mine, etc.)					5 1	
D13 B	lending or mixing prior to submission to any of the operations numbered				IN CLASS (Block 2	19)	
	11 to D12	UN 1	Class/	H Number H1	Explosive		
	tepackaging prior to submission to any of the operations number D1 to D12. torage pending any of the operations D1 to D12.	3		HI H3	Inflammable lic	nuids	
		4.1		H4.1	Inflammable so		
Р	ACKAGING TYPES (Block 18) MODES OF TRANSPORT (Block 12)	:ks 4.2		H4.2	Substances or	wastes liable to sponta	neous combustion
1 D	10 – 12) Jrum 6 Composite Packaging R = Road	4.3		H4.3	Substances or	waste which, in contac	t with
	Vooden Barrel 7 Pressure receptacle T = Train/Rail	т.Ј		114.5		ammable gases	
	errican 8 Bulk S = Sea	5.1		H5.1	Oxidizing	-	
	lox 9 Other (Specify) A = Air	5.2		H5.2 H6.1	Organic peroxi		
	ag W = Inland Waterways 'HYSICAL CHARACTERISTICS (Block 14)	6.1 6.2		H6.2	Poisonous (act Infectious subs		
	Powdery/powder 5 Liquid	8		H8	Corrosives	Stances	
2 S	olid 6 Gaseous	9		H10	Liberation of to	oxic gases in contact wi	th air or water
	liscous/paste 7 Other (specify)	9		1111	Tavia (dalavad	or obrania)	
4 3	ludgy	9		H11 H12	Toxic (delayed Ecotoxic		
		9		H13	Capable, after	disposal, of yielding ar	other
					material, e.g. le	eachate, which posses	ses any of the
	ISE BY CUSTOMS OFFICERS				characteristics	listed above.	
26. CC	DUNTRY OF EXPORT/DISPATCH OR CUSTOMS OFFICE OF EXIT				FICES OF TRANS		
The wa	aste described overleaf has left	Name	e of Coun	try (2):		Name of Country (2)	•
	untry on:		Entry	1	Departure	Entry	Departure
Stamp			,		·	,	1
Si	gnature:						
Ň	5						
27. CC	DUNTRY OF IMPORT/DESTINATION	Name	e of Coun	try (2):		Name of Country (2)	
The waste described overleaf has entered			- ·				
	e country on:		Entry		Departure	Entry	Departure
						1	
the Sta	anp.						
Sta	gnature:						

APPENDIX IV: TRACKING DOCUMENT

(To be completed in Five Copies)

Form	No.	3
	110.	J

Regulation 15 (2) (c)

Α	Serial No.
Transporter	Registered Name of Transporter
Transporter	Usual Municipality/District of operation
	License number
	Issuing Authority
CONSIGNMENT NOTE WASTE	FOR THE CARRIAGE AND DISPOSAL OF HAZARDOUS
В	Area collected
Description of the	Type of Waste
hazardous waste	Description and physical nature of hazardous waste
	Quantity/Size of hazardous waste
	Number of Containers
C	I certify that I have received the waste as described in A and B
Disposer's Certificate	above.
	The hazardous waste was delivered in vehicle
	(Registration No.) at(time) on
	(date and the carrier gave his/her name ason
	behalf of
	The hazardous waste shall be disposed off as per disposal
	license issued by the Authority.
	Signed:
	Name:
	Position:
	Date:
	On behalf of:

APPENDIX V: APPLICATION/RENEWAL FOR A LICENCE FOR TRANSPORTATION OF HAZARDOUS WASTE

Form No. 4

(Regulation 43 (6))

APPLICATION/RENEWAL FOR A LICENO	CE FOR TRANSPORTATION	ON OF HAZARDOUS
I hereby apply for a license to transport was	te, of which particulars are	given below:
Name and address of applicant		
TIN Number		
Registration number and type of vehicle to t	-	
Quantity of waste per vehicle to be transpor		
Licensed sites/plant to which waste is to be		
Collection schedule		
Any other information		
Attach Recommendation document(s) from	the relevant lead agency.	
Is Application for:	Initial license	Renewal
Previous License Number		
Date:	Signature:	
Designation/Title:		
FOR OFFIC	CIAL USE ONLY	
Application received by	on	20
Fee paid Tshs(in w	ords)	

Director of Environment

APPENDIX VI: LICENCE TO TRANSPORT HAZARDOUS WASTE

Form No. 5 (Regulation 43 (1)) LICENSE TO TRANSPORT HAZARDOUS WASTE
License No.
Name
Address:
You are hereby licensed to transport hazardous waste to:
(ward/district)
From(ward/district)
Type and registration number of vehicles licensed
This license is valid from
This license is granted subject to the following conditions:
Date: Signature:

The Director of Environment

APPENDIX VII: APPLICATION/RENEWAL FOR A LICENCE TO OWN/OPERATE A WASTE TREATMENT PLANT OR DISPOSAL SITE/FACILITY

	pply for a lice are given belo		perate a v	vaste treatment p	blant/disposal /fa	cility/site, of	which
TIN Numbe	ər						
Location ar	nd district of pla	ant/ facility/sit	e				
		-	-				
Descriptior	n of types of wa	iste to be trea	ated / dispo	osed of at plant / f	acility / site		
Quantity be	eing disposed o	of/per annum	(tones/kg)				
Type of ha	zardous treatm	ent to be use	d for: ·				
(a)							
(b)	Recycling						
Type of ha	zardous waste	disposal facil	ity/site:				
(a)							
(b)							
(C)	•	-					
(d)							
(e) (f)	Incineration .						·····
Other (spe	cify)						
Estimated	life	span	of	plant/site	(include	plan	or
						•	
Approved I	Energy Plan da	ted				.(Attach Copy	/)

Regulation 45 (1)

APPLICATION/RENEWAL FOR A LICENCE TO OWN/OPERATE A WASTE TREATMENT PLANT **OR DISPOSAL SITE/FACILITY** (To be completed in Triplicate)

Form No. 6

Executive summary of environmental impact statement (please attach)

Is Application for:	Initial license	Renewal	
Previous License Number			
E.I.A. Number			Certificate
Any other information			
Date:	Signa	ature:	
Designation/Title:			

FOR OFFICIAL USE ONLY

Application received by	 	on	 20
Fee paid TShs			

Director of Environment

APPENDIX VIII: LICENCE TO OWN/OPERATE WASTE TREATMENT PLANT/DISPOSAL/FACILITY/ SITE

Form no. 7

Regulation 44 (1)

LICENCE TO OWN/OPERATE WASTE TREATMENT PLANT/DISPOSAL/FACILITY/ SITE

License No.
Name
Address
You are hereby licensed to own/operate a hazardous waste treatment plant/hazardous waste disposal facility/site:
(Plot No., town, ward, district, region)
This license is valid from20 to
This license is subject to the following conditions:
Date: Signature:

Director of Environment