

Circular No. 04/2012/TT-BTNMT dated May 08, 2012 of the Ministry of Natural Resources and Environment specifying criteria to determine the facility causing environmental pollution, severe environmental pollution

THE MINISTRY OF NATURAL RESOURCES AND ENVIRONMENT

SOCIALIST

REPUBLIC

OF VIETNAM

Independence - Freedom - Happiness

No.: 04/2012/TT-BTNMT

Ha Noi, May 08, 2012

CIRCULAR

SPECIFYING CRITERIA TO DETERMINE THE FACILITY CAUSING ENVIRONMENTAL POLLUTION, SEVERE ENVIRONMENTAL POLLUTION

Pursuant to the Law on Environmental Protection dated November 29, 2005;

Pursuant to Decree No. 117/2009/ND-CP dated December 31, 2009 of the Government on handling the legal violations in the field of environmental protection;

Pursuant to Decree No. 25/2008/ND-CP dated March 04, 2008 of the Government stipulating the functions, duties, powers and organizational structure of the Ministry of Natural Resources and Environment, amended and supplemented in Decree No. 19/2010/ND-CP dated March 05, 2010 of the Government and Decree No. 89/2010/ND-CP dated August 16, 2010 of the Government;

At the proposal of the General Director of the General Department of Environment and Director of Department of Legal Affairs;

The Minister of Natural Resources and Environment promulgates the Circular specifies the criteria to determine the facility causing environmental pollution, severe environmental pollution.

Article 1. Scope of adjustment and subjects of application :

1. This Circular specifies the criteria of identification as a basis for the classification of facility causing environmental pollution, causing severe environmental pollution.

2. This Circular is applicable to the facilities of production, trading and services with activities generating wastage in the territory of the Socialist Republic of Vietnam (hereinafter referred to as facility) and the agencies, organizations relating to the activities identifying facility causing environmental pollution and severe environmental pollution.

Article 2. Principles and basis for identifying the facility causing environmental pollution, and severe environmental pollution.

1. The determination of facility causing environmental pollution and serious environmental pollution must be conducted objectively, fairly and in accordance with law and regulations on standards, technical regulations on environment; the degree of the acts of violation causing environmental pollution including:

a) Act of discharging waste water, waste gas and dust beyond technical regulations on environment;

b) Act of causing noise or vibration in excess of technical regulations on environment;

c) Acts of burying and discharging in the soil and water environment the contaminants in solid and sludge modeling contaminating soil, water and air beyond technical regulations on the environment.

2. Determining the degree of the act of violation which causes environmental pollution

a) For acts specified at Point a, Clause 1 of this Article, the degree of violation is determined on the basis of the discharged water volume, flow of waste gas and frequency of excess of technical regulations on the environment of the specific environmental parameters in waste water, waste gas, dust of the facility;

b) For acts specified at Point b, Clause 1 of this Article, the degree of violation is determined on the basis of the frequency of excess of technical regulations on noise, vibration, affected subjects
and
time the
act takes place
;

c) For acts specified at Point c, Clause 1 of this Article, the degree of violation is determined on the basis of the frequency of excess of technical regulations on the quality of water surface, underground water, ambient air and soil environment of the environmental parameters caused by these acts.

3. Environmental parameters exceeding the technical regulations on the environment are

determined on the basis of the result of monitoring and supervising the environmental parameters and comparing them with the corresponding technical regulations of the environment.

Article 3. Specific environmental parameters on waste water, waste gas, dust, noise and vibration;

1. The specific environmental parameters of waste water, waste gas, dust, noise and vibration are determined as follows:

a) The environmental parameters of waste water, waste gas, dust, noise and vibration are specified to be monitored and supervised periodically in the report on environmental impact assessment, the written registration of environmental standards meeting, the written commitment of environmental protection, environmental protection project, detailed environmental protection project, simple environmental protection project of the facility approved or certified by the competent State agency;

b) For facilities having no environmental parameters specified at Point a of this clause, the competent State agency will base on the nature and operation type of facility or each part of the facility to decide the specific environmental parameters of waste water and waste gas of the establishment as prescribed in the Annex attached to this Circular.

2. The competent State agency as prescribed at Point b, Clause 1 of this Clause 3 of Article 9 of this Circular is an agency or organization assigned the task of identifying and classifying the facilities causing environmental pollution and severe environmental pollution.

Article 4. Criteria for identifying the facility causing environmental pollution

The facility causing environmental pollution is the one having 01 (one) environmental parameter or more on waste water, waste gas, dust, noise or vibration in excess of the technical regulations on the environment but not subject to regulations in Article 5, 6, 7, 8 and 9 of this Circular.

Article 5. Criteria for identifying the facility causing severe environmental pollution on waste water.

The facility that causes severe environmental pollution is the one violating one of the following criteria:

1. Having acts of discharging waste water exceeding technical regulations on the environment from 2 times to 5 times and under one of the following cases:

a) Having 2 or 3 parameters exceeding the technical regulations on waste with the amount of waste from 500 m³/day (24 hours) or more in case of containing hazardous substances or the amount of waste from 1,000 m³/day (24 hours) or more in case of absence of hazardous substances containing;

b) Having 4 or 5 parameters exceeding the technical regulations on waste with the amount of waste from 200 m³/day (24 hours) or more in case of hazardous substances containing or the amount of waste from 500 m³/day (24 hours) or more in case of absence of hazardous substances containing;

c) Having 6 or more parameters exceeding the technical regulations on waste with the amount of waste from 100 m³/day (24 hours) or more in case of hazardous substances containing or the amount of waste from 200 m³/day (24 hours) or more in case of absence of hazardous substances containing;

2. Having acts of discharging waste water exceeding the technical regulations on the environment from 5 times to less than 10 times and under one of the following cases:

a) Having 2 or 3 parameters exceeding the technical regulations on waste with the amount of waste from 200 m³/ day (24 hours) or more in case of hazardous substances containing or the amount of waste from 500 m³ / day (24 hours) or more in case of absence of hazardous substances containing;

b) Having 4 or 5 parameters exceeding the technical regulations on waste with the amount of waste from 100 m³/ day (24 hours) or more in case of hazardous substances containing or the amount of waste from 200 m³ / day (24 hours) or more in case of absence of hazardous substances containing;

c) Having 6 or more parameters exceeding the technical regulations on waste with the amount of waste from 500 m³ / day (24 hours) or more in case of hazardous substances containing or the amount of waste from 100 m³ / day (24 hours) or more in case of absence of hazardous substances containing;

3. Having acts of discharging waste water exceeding the technical regulations on the environment from 10 times to less than 50 times and under one of the following cases:

a) Having 2 or 3 parameters exceeding the technical regulations on waste with the amount of waste from 100 m³ / day (24 hours) or more in case of hazardous substances containing or the amount of waste from 200 m³ / day

(24 hours) or more in case of absence of hazardous substances containing;

b) Having 4 or 5 parameters exceeding the technical regulations on waste with the amount of waste from 50 m³ / day (24 hours) or more in case of hazardous substances containing or the amount of waste from

100 m

³

/ day

(24 hours) or more in case of absence of hazardous substances containing;

c) Having 6 or more parameters exceeding the technical regulations on waste with the amount of waste from 10 m³ / day (24 hours) or more in case of hazardous substances containing or the amount of waste from

50 m

³

/ day

(24 hours) or more in case of absence of hazardous substances containing;

4. Having acts of discharging waste water exceeding the technical regulations on the environment from 50 times or more and under one of the following cases:

a) Having 1 to 3 parameters exceeding the technical regulations on waste with the amount of waste from 50 m³ / day (24 hours) or more in case of hazardous substances containing or the amount of waste from

100 m

³

/ day

(24 hours) or more in case of absence of hazardous substances containing;

b) Having 4 or 5 parameters exceeding the technical regulations on waste with the amount of waste from 10 m³ / day (24 hours) or more in case of hazardous substances containing or the amount of waste from

50 m

³

/ day

(24 hours) or more in case of absence of hazardous substances containing;

c) Having from 6 parameters or more exceeding the technical regulations on waste.

5. Having acts of discharging waste water containing radioactive substances causing radioactive contamination exceeding the standards, technical regulations

6. Having acts of discharging waste water with pH equal to or less than 2 (two) or greater than 12.5 (twelve point five).

Article 6. Criteria for identifying the facility causing severe environmental pollution on waste gas and dust.

The facility that causes severe environmental pollution is the one violating one of the following criteria:

1. Having acts of discharging waste gas and dust exceeding the technical regulations on the environment from 2 times to less than 5 times and under one of the following cases:

a) Having 1 or 2 parameters exceeding the technical regulations on waste in case the waste gas flow is from 2,000 m³/hour or more;

b) Having 3 parameters exceeding the technical regulations on waste in case the waste gas flow is from 1,000 m³/hour or more;

c) Having 4 parameters or more exceeding the technical regulations on waste in case the waste gas flow is from 500 m³/hour or more;

2. Having acts of discharging waste gas and dust exceeding the technical regulations on the environment from 5 times to less than 10 times and under one of the following cases:

a) Having 1 or 2 parameters exceeding the technical regulations on waste in case the waste gas flow is from 1,000 m³/hour or more;

b) Having 3 parameters exceeding the technical regulations on waste in case the waste gas flow is from 500 m³/hour or more;

c) Having 4 parameters or more exceeding the technical regulations on waste in case the waste gas flow is from 100 m³/hour or more;

3. Having acts of discharging waste gas and dust exceeding the technical regulations on the environment from 10 times to less than 50 times and under one of the following cases:

a) Having 1 or 2 parameters exceeding the technical regulations on waste in case the waste gas flow is from 500 m³/hour or more;

b) Having 3 parameters exceeding the technical regulations on waste in case the waste gas flow is from 100 m³/hour or more;

c) Having 4 parameters exceeding the technical regulations on waste in case the waste gas flow is from 50 m³/hour or more;

4. Having acts of discharging waste gas and dust exceeding the technical regulations on the environment from 50 times or more and under one of the following cases:

a) Having 1 or 2 parameters exceeding the technical regulations on waste in case the waste gas flow is from 100 m³/hour or more;

b) Having 3 parameters exceeding the technical regulations on waste in case the waste gas flow is from 50 m³/hour or more;

c) Having 4 parameters exceeding the technical regulations on waste in case the waste gas flow is from 10 m³/hour or more;

5. Discharging waste gas and dust containing radioactive substances causing environmental radioactive contamination exceeding technical regulations and standards.

Article 7. Criteria for identifying the facility causing severe environmental pollution on noise

The facility that causes severe environmental pollution is the one having acts of causing noise pollution frequently and continuously under one of the following cases:

1. Generating noise from 65dBA or more in areas required special quietness, hospitals, libraries, nursing homes or from 80dBA or more in residential areas, hotels, houses, administrative agencies and the time the acts take place is during the period from 21 o'clock PM of previous day to 6 o'clock AM of the following day.

2. Generating noise from 75dBA or more in areas required special quietness, hospitals, libraries, nursing homes, kindergartens, schools or from 90dBA or more in residential areas, hotels, houses, administrative agencies and the time the acts take place is during the period from 6 o'clock AM to 21 o'clock PM.

Article 8. Criteria for identifying the facility causing severe environmental pollution on vibration.

The facility that causes severe environmental pollution is the one having acts of causing vibration pollution frequently and continuously under one of the following cases:

1. Generating vibration in excess of technical regulations on vibration from 1.5 times or more and the time the acts take place is from 21 o'clock PM of the previous day to 6 o'clock AM of the following day for areas required special quietness, residential areas, hotels, motels, residential areas intermingled with commercial areas, areas of services and production.
2. Generating vibration in excess of technical regulations on vibration from 2 times or more and the time the acts take place is from 6 o'clock AM to 21 o'clock AM for areas required special quietness, residential areas, hotels, motels, administrative agencies intermingled with commercial areas, areas of services and production.

Article 9. Criteria for identifying the facility causing severe environmental pollution on solid waste.

1. Facility causing serious environmental pollution on solid waste is the one having acts of burying and discharging in the soil and water environment the contaminants in solid and sludge modeling that make at least 01 (one) environmental parameter of the area receiving solid waste (soil, water and air environment) on chemicals, heavy metals exceeding the technical regulations on the environment from 03 times or more or make at least 01 (one) other environmental parameter of the area receiving the solid waste exceeding the technical regulations on the environment from 05 times or more.
2. The technical regulations on the environment as prescribed in clause 1 of this Article will comply with regulations at Point c, clause 2 of this Circular.

3. The competent State agencies will base on the nature and composition of the pollutants in solid and sludge modeling to determine environmental parameters of the area that receives the solid waste in order to identify and classify the facility causing severe environmental pollution as specified in Clause 1 of this Article.

Article 10. Implementation provision

1. This Circular will take effect on June 25, 2012. Other provisions in Section I, II of Circular No. 07/2007/TT-BTNMT dated July 03, 2007 of the Ministry of Natural Resources and Environment guiding the classification and deciding on the list of facilities causing environmental pollution required to be handled will be invalid from the date this Circular takes effect.

2. Any problem arising in the course of implementation should be promptly reported to the Ministry of Natural Resources and Environment for consideration and settlement.

**FOR MINISTER
DEPUTY MINISTER**

Bui Cach Tuyen

ANNEX.

SPECIFIC ENVIRONMENTAL PARAMETERS ON WASTE WATER, WASTE GAS, DUST, NOISE, VIBRATION OF FACILITIES

(Promulgated with Circular No. 04/2012/TT-BTNMT dated May 08, 2012 of the Minister of Natural Resources and Environment)

No.

Type of facility

Specific Environmental Parameters

Noise and vibration

Waste water

pH, TSS, color, BOD₅, COD, total N, total P and

Waste gas and dust

Total dust, CO, NO_x, SO₂ and

01

Weaving ,

- Weaving and dyeing facility

VIETNAM REGULATIONS 13:2008/BTNMT and temperature, oil, mineral, Cr 3+

Aniline , chlorine , H2S

Noise [2] , Vibration [3]

- Garment facility

VIETNAM REGULATIONS 13:2008/BTNMT and temperature, oil, mineral, Cr

Noise 2 , Vibration 3

- Silk fiber and artificial fiber

VIETNAM REGULATIONS 13:2008/BTNMT and temperature, oil, mineral, Cr

- Washing, bleaching, drying facility

VIETNAM REGULATIONS

13:2008/BTNMT and temperature, oil, mineral, Cr

Clo

02

Food and beverages production facility

- Confectionary production facility

Coliform

- Alcohol and beer production facility

Coliform

- Milk production facility

Ammonium, Coliform

- Canned food production facility

Vegetable and animal oil and fat, Sulfur, Chloride, Ammonium

$$H^2$$

- Soft drink, functional foods, purified drinking water production facility

Ammonium, Chloride, vegetable and animal oil and fat, Sulfur

- Edible oil processing facility

Ammonium, Chloride, vegetable and animal oil and fat, Sulfur

Mineral exploitation facility

- Constructional material exploitation facility

Total radioactive activity degree a, Total radioactive activity degree b

Dust containing Si

Noise ² , Vibration ³

- Metal mineral exploitation facility

As, Cd, Cr ⁶⁺ , Cr ³⁺ , Cu, Fe

Noise ² , Vibration ³

- Coal exploitation facility

As, Cd, Cr ⁶⁺ , Cr ³⁺ , Cu, F

H² S, Sulfur

Noise², Vibration³

- Crude oil and natural gas exploitation facility

VIETNAM REGULATIONS 35:2010/BTNMT and oil content

Noise², Vibration³

04

Metal-based production facility

- Metallurgical and mechanic facility

As, Cd, Cr⁶⁺, Cr³⁺, Cu, Fe

As, Cd, Cu, Pb, Zn, dust

Noise 2 , Vibration 3

- Machinery and equipment manufacture facility

As, Cd, Cr 6+ , Cr 3+ , Cu, Fe

Noise 2 , Vibration 3

- Metal recycling facility

As, Cd, Cr 6+ , Cr 3+ , Cu, Fe

As, Cd, Cu, Pb, Sb, Zn

- Matallurgical waste recycling and other industrial

As, Cd, Cr 6+ , Cr 3+

As, Cd, Cu, Pb, Sb, Zn

- Metal plating facility

Cu, Cr⁶⁺, Cr³⁺

HCl, HNO₃, H₂SO₄

- Electronic and electrical component and device manufacture facility

As, Cd, Cr⁶⁺, Cr³⁺

- Steel rolling and shaped aluminum manufacture facility

As, Cd, Cr 6+ , Cr 3+

As, Cd, Cu, Pb, Sb, Zn

05

Mineral Processing Facility

- Mineral processing facility with chemical using

As, Cd, Cr 6+ , Cr 3+

HCl, HNO₃ , H₂ SO₄

- Mineral processing facility without chemical using

As, Cd, Cr 6+ , Cr 3+

06

Leather processing facility

Cr	6+	, Cr	3+	,
H	2	S		

07

Pulp and paper producing facility

VIETNAM REGULATIONS 12:2008/BTNMT organic halogen QCVN

Clo, H	2	S
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Noise 2 , Vibration 3

08

Chemical production and processing facility

- Chemical production facility

As, Cd, Cr 6+ , Cr 3+ ,

HCl, HNO 3, H 2 S, H

Noise 2 , Vibration 3

- Urea production facility

Ammonium, Floride, Phenol, mineral oil and grease

NH 3

Noise ² , Vibration ³

- Phosphate fertilizer production facility

Flo, Total radioactive activity degree a, Total radioactive activity b

HF, HCl, HNO ³ , H ² SO

Noise ² , Vibration ³

- Fused Calcium Magnesium Phosphate production facility

Fluorine, Total radioactive activity degree a, Total radioactive activity b

HF, HNO ³ , H ² SO

- Superphosphate production facility

Fluorine, Total radioactive activity degree a, Total radioactive activity b

Mineral oil and grease

Benzene, toluene, xylene

- Petrochemical (surface active agents, methanol)

Temperature, Phenol, Cyanide

Benzene, toluene, xylene

Vibration ²

- Plastic production facility

Acetaldehyde, Aniline, n-butyl acetate, ethyl acetate, ethyl ether, phenol

Vibration ²

- Detergents, additives production facility

Chlorine , Phenol , Cyanide

Vibration 2

- Pharmaceutical products, oriental medicine and cosmetic chemistry production facility

Chlorine , Phenol , Cyanide

Vibration 2

- Plastic and plastic waste processing facility

Chlorine , Phenol , Cyanide

09

Rubber and rubber

latex production and pro

- *Rubber and rubber latex processing facility*

VIETNAM REGULATIONS 01:2008/BTNMT

Clo, Ammoniumac, H₂ S

- Shoes, vulcanized rubber, automobile tire, tractor production facility

Chlorine , Phenol , Cyanide

H₂ S

10

Glass production facility

Chlorine

,

Phenol

,

Cyanide

Dust containing Si, HF

11

Ceramic and pottery production facility

Dust containing Si, HF

12

Power production facility

- Electricity production facility by thermal power

Temperature

VIETNAM REGULATIONS 22:2009/BTNMT

Noise ² , Vibration ³

- Battery production facility

As, Cd, Cr ⁶⁺ , Cr ³⁺

As, Cd, Cu, Pb, Sb, Zn

- Cell production facility

As, Cd, Cr 6+ , Cr 3+ , Cu, Fe

As, Cd, Cu, Pb, Sb, Zn

13

Production facility using fossil fuel

- Production facility using firing fuel as Fuel Oil

Mineral oil and grease

- Production facility using firing fuel as coal and firewood

Phenol, Cyanide

- Production facility using firing fuel as

Phenol, Cyanide

14

Agricultural and forestry product processing facility

- Sugar cane processing facility

Coliform, temperature, sulfur

H₂S

- Coffee processing facility

Coliform

NH₃

- Starch processing facility

Ammonium, Clo, Coliform,

Sulfur, Cyanide

H	2	S, NH	3
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- Cashew nut processing facility

Phenol

- Nut, fruit and vegetables processing facility

Chloride

- Monosodium glutamate production facility

Phenol, Cyanide

- Breeding food processing facility

Ammonium, Coliform, Sulfur

H₂S, NH₃, methyl, mercaptans

- Rice milling and processing facility

Coliform

- Tea processing facility

- Bamboo and rattan, wood handicraft processing facility

Phenol

n-Butyl acetate

- Handicrafts production facility

n-Butyl acetate

15

Micro - organic fertilizer production facility

Coliform

NH 3

16

Livestocks husbandry and breeding product processing facility

- Breeding facility, concentrated breeding farm

VIETNAM REGULATIONS 01-14:2010/BNN PTNV, VIETNAM REGULATIONS 01-15:2010/BNNPTNT

H 2 S, NH 3

-Cattle and poultry slaughter facility-

Ammonium, Coliform, Vegetable and animal oil and grease, Sulfur

H₂S, NH₃, Metyl Mercap

17

Storage of pesticide and pesticide

Pesticide production factory

Organochlorine, organophosphate, Phenol

Benzene, methanol, toluene, xylene

18

Waste transporting, treating and processing facility

- Solid waste treating and processing facility

As, Cd, Cr 6+ , Cr 3+ , Cu, Fe

Methyl Mercaptan

- Facility of recycling medical waste, hazardous waste and domestic waste

As, Cd, Cr 6+ , Cr 3+

H 2 S, NH 3 ,

- The warehouses or sites of collecting and transporting hazardous waste

Ammonium, Coliform

H 2 S, NH 3

- The industrial, medical and hazardous waste incinerator

VIETNAM REGULATIONS 02:2008/ BTNMT, VIETNAM REGULATIONS 20:2008/ BTNMT

- Concentrated industrial and domestic waste water

Coliform

Methyl Mercaptan

Noise 2 , Vibration 3

19

Constructional material production facility

- Brick and tile, cement, concrete, cutting stone

HF

- Cement concrete, hot asphalt concrete production facility

Mineral oil and grease

20

Aquaculture and aqua product processing facilities

- Aquacultural facility

VIETNAM REGULATIONS

11:2008/BTNMT and Ammonium, Coliform

- Aqua product processing facilities

VIETNAM REGULATIONS

11:2008/BTNMT and Vegetable,

and animal

oil

Ammonium, H

2

S, Metyl Mercaptan

Noise

2

- Aqua product, fisheries by-products, fish flour processing

VIETNAM REGULATIONS

11:2008/BTNMT and Vegetable,

and ani

NH

3

, H

2

S, Metyl Merc

21

Health facility

VIETNAM REGULATIONS

[NS](#)

28:2010/BTNMT và Công

Megeta

and animal

oil a

VIETNAM REGULATIONS

02:2008/BTNMT

22

Repairing and newly built means of transportation facility

- Automobile and motorcycle manufacture factory

As, Cd, Cr 6+, Cr 3+

Noise², Vibration³

- The bus stations airports, railway stations, subway

Ammonium, Coliform, mineral oil and grease

- Vehicles washing, cars and locomotives, repairing facility

Coliform, mineral oil and grease

- Repairing and newly-building ship facility

Mineral oil and grease, Phenol

HCN, HNO₃, SO₂

Noise², Vibration³

- Ship dismantling tanker flushing facility

Coliform, mineral oil and grease

Noise², Vibration³

- Sea and river port

Coliform, mineral oil and grease

23

Tourism areas and resorts

- Restaurant and hotel

VIETNAM REGULATIONS [NS](#) 14:2008/BTNMT và TDS, Sulfur, Ammonium, Nitrate, and

Noise ²

- Delux eco-tourism areas and resorts, golf projects

VIETNAM REGULATIONS ¹⁴ 14:2008/BTNMT and TDS, Sulfur, Ammonium, Nitrate, and

- The medical facilities using minerals from natural mineral water, natural hot water and natural

Vegetable and animal oil and grease, Coliform

24

The institutes, **centers of scientific and technical research and application, laboratory**

As, Cd, Cr 6+, Cr 3+

HCl, H₂S, HNO₃, H₂SO₄, benzene, chloroform, toluene, xylene

25

The other facilities not mentioned in this list

The corresponding VIETNAM REGULATIONS when issued

The corresponding VIETNAM REGULATIONS when issued

[\[1\]](#) VIETNAM REGULATIONS 13: 2008/BTNMT –National Technical Regulations on textile industry waste water

[\[2\]](#) VIETNAM REGULATIONS 26:2010/BTNMT – National Technical Regulations on noise

[\[3\]](#) VIETNAM REGULATIONS 27:2010/BTNMT – National Technical Regulations on vibration

[\[4\]](#) VIETNAM REGULATIONS 35: 2010/BTNMT –National technical regulations on waste water discharged from offshore petroleum projects

[\[5\]](#) VIETNAM REGULATIONS 12: 2008/BTNMT –National technical regulations on waste water from paper and pulp industry

[\[6\]](#) VIETNAM REGULATIONS 01: 2008/BTNMT –National technical regulations on industrial waste water from processing natural rubber

[\[7\]](#) VIETNAM REGULATIONS 22: 2009/BTNMT –National technical regulations on waste gas of industry of thermal power

[\[8\]](#) VIETNAM REGULATIONS 01/14:2010/BNNPTNT National technical regulations on conditions of biosafety pig farm

[\[9\]](#) VIETNAM REGULATIONS 01/14:2010/BNNPTNT National technical regulations on conditions of biosafety poultry farm

[\[10\]](#) VIETNAM REGULATIONS 02:2008/BTNMT National technical regulations on waste gas of medical solid incinerator

[\[11\]](#) VIETNAM REGULATIONS 30:2010/ BTNMT National technical regulations on waste gas of industrial waste material incinerator

[\[12\]](#) VIETNAM REGULATIONS 11:2008/BTNMT National technical regulations on waste water of aqua product processing industry

[\[13\]](#) VIETNAM REGULATIONS 28:2010/BTNMT National technical regulations on medical waste water

[\[14\]](#) VIETNAM REGULATIONS 14:2008/BTNMT National technical regulations on domestic waste water

