



# MINISTRY OF ENVIRONMENT AND NDU

## ENVIRONMENTAL GUIDELINE No. 4

### BUS DEPOT OF LESS THAN 50 BUSES

#### 1.0 Purpose of guideline

This guideline for the setting up of a bus depot of less than 50 buses has been prepared by Ministry of Environment & NDU to ensure that all environmental issues are duly taken into consideration by stakeholders.

#### 2.0 Nature of development

A bus depot serves as an area for parking buses and may also involve numerous activities such as cleaning, washing, servicing of buses, panel beating, painting and fuel dispensing.

#### 3.0 Potential impacts

The major environmental issues associated with a bus depot are noise, air pollution and generation of solid waste including hazardous wastes. The different aspects, impacts and nuisances related to such activities are listed below:

Activity	Aspects	Impacts/ Nuisances
<b>Construction phase</b>		
Site preparation / Construction of buildings	<ul style="list-style-type: none"> <li>- Generation of excavated soil , debris and construction wastes</li> <li>- Use of heavy machinery</li> </ul>	<ul style="list-style-type: none"> <li>-Dumping into barelands, water bodies and drains</li> <li>-Dust, noise and mud</li> <li>-Visual impacts</li> </ul>
<b>Operation phase</b>		
Movement of vehicles	<ul style="list-style-type: none"> <li>- Generation of noise</li> <li>- Generation of smoke</li> </ul>	<ul style="list-style-type: none"> <li>- Nuisance to the neighbourhood</li> <li>- Air pollution</li> <li>- Traffic implication</li> </ul>
Washing of buses	<ul style="list-style-type: none"> <li>- Generation of wastewater</li> </ul>	<ul style="list-style-type: none"> <li>- Contamination of water bodies</li> </ul>
Maintenance and servicing of vehicles	<ul style="list-style-type: none"> <li>- Generation of hazardous wastes (used oil, batteries, oil filters, brake fluid)</li> <li>- Solid wastes (Used tyres, used brake pads)</li> </ul>	<ul style="list-style-type: none"> <li>- Soil contamination and contamination of water bodies</li> <li>- Visual impacts</li> <li>- Pests, rodents and flies</li> </ul>
Fuel dispensing and storage	<ul style="list-style-type: none"> <li>- Risk of fuel spillage</li> </ul>	<ul style="list-style-type: none"> <li>- Soil contamination and contamination of water bodies</li> </ul>

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	- Risk of fire	- Air pollution and human injury
Panel beating and painting	- Generation of noise - Evaporation of paints and solvents	- Nuisance to the neighbourhood - Air pollution
Use of pumps and compressors	- Noise	- Nuisance to the nearby inhabitants

#### 4.0 Siting of activity

- Not applicable

#### 5.0 Environmental Considerations / Conditions

The major environmental issues are noise, **generation of hazardous wastes including used oil** and the following environmental conditions shall be observed:

- (i) All electric motors such as compressors shall be housed in soundproof enclosures to keep noise level within permissible limits as per the Environment Protection (Environmental Standards for Noise) Regulations 1997. The noise exposure limits as per the above regulation are as follows:

Industrial noise		Neighbourhood noise	
7:00 – 21:00	60*dB(A) Leq	7:00 - 18:00	60 dB(A) Leq
21:00 – 7:00	55*dB(A) Leq	18:00- 21:00	55 dB(A) Leq
		21:00 - 7:00	50 dB(A) Leq

\* A tonal character adjustment of +5 dB(A) should be applied to the measured value where the noise has a definite continuous note such as a whine or hiss.

- (ii) Hazardous wastes including used oil shall be collected and disposed as per Environment Protection (Standards for Hazardous Wastes) Regulations 2001.
- (iii) Used oil shall be collected and disposed of as per the Environment Protection (Collection, Storage, Treatment, Use and Disposal of Used Oil) Regulations 2005.
- (iv) All petroleum products, used oil and other chemical must have secondary containment. Areas enclosed by secondary containment shall be maintained, and all accumulated water within secondary containment areas should be disposed of. The secondary containment shall have a storage capacity of 110 % of the capacity of the storage tank.

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- (v) A contingency plan as provided for under section 30 (3)(a) of the Environment Protection Act 2002 shall be prepared and implemented to combat any case of accidental spillage of fuel or chemicals.
- (vi) All solid wastes generated from the bus depot shall be collected and disposed of.
- (vii) Wastewaters shall be collected, treated and disposed of.
- (viii) No nuisance by way of noise dust, air pollution shall be caused to the public and surrounding environment during site preparation, infrastructural works and during operation of the activity.
- (ix) The Department of Environment of the Ministry of Environment and NDU shall be informed in writing of the dates of commencement of works on site and operation of the activity for monitoring purposes.

## 6.0 Enforcement

Under Section 13 of the Environment Protection Act 2002, the enforcing agencies for the different environmental medium or pollutants are as follows:

S. No	Environmental media/ pollutant	Enforcing Agency
1	Noise, odour	Ministry of Health and Quality of Life
2	Effluents	Ministry of Public Utilities
3	Solid wastes , hazardous wastes	Ministry of Local Government
4	Fuel spillage	Ministry of Environment

The above-mentioned enforcing agencies shall monitor compliance with the conditions falling under their purview.

## 7.0 Offences

Any person who fails to comply with any regulations/standards referred to in this guideline shall commit an offence and shall:

- (i) on a first conviction, be liable to a fine not exceeding 50,000 rupees and to imprisonment for a term not exceeding two years.
- (ii) on a second or subsequent conviction, be liable to a fine not exceeding 100,000 rupees and to imprisonment for a term not exceeding 8 years.

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