

Chemical Management



Palm Oil Mill and Plantation

According to the directive from Department of Environment (DOE), the oil and petroleum product storage area should be surrounded by concrete dike or other equivalent structure designed to contain any spillage of the waste under the worst-case scenario. The capacity of the containment should be 110% of the largest container stored in the storage area or 110% of the volume of the diesel contained in the tank. This is depicted in the pictorial diagram below: Section A for Diesel Skid Tank and Section B Oil-based Products in Drums and Containers.

Pictorial diagram on secondary containment facility

Section A : Diesel Skid Tank

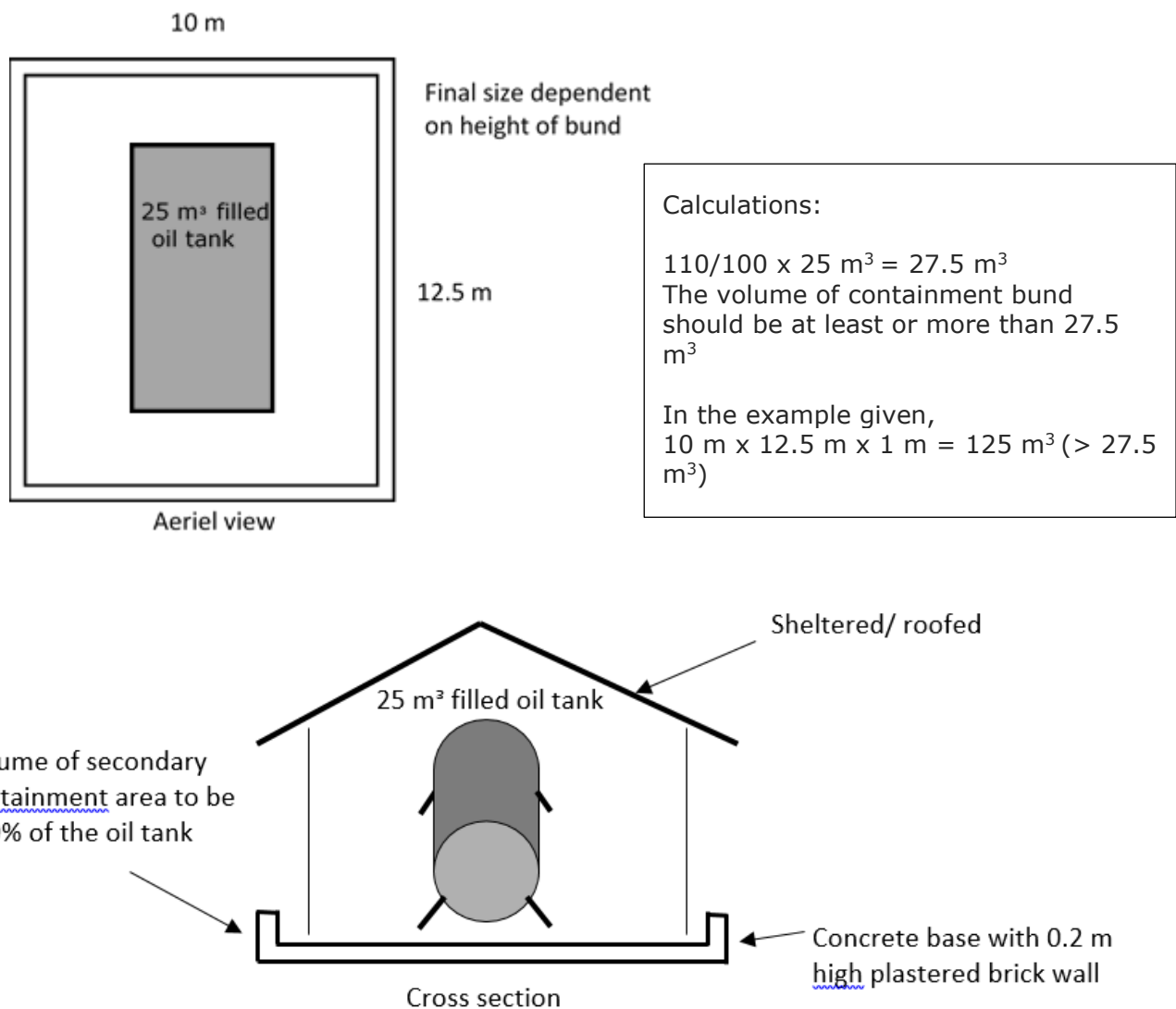


Diagram above is for illustration purposes only, and is based on [Guidelines on Storage of Hazardous Chemicals](#)

For more detailed explanation, please refer to [Guidelines on Storage of Hazardous Chemicals](#)



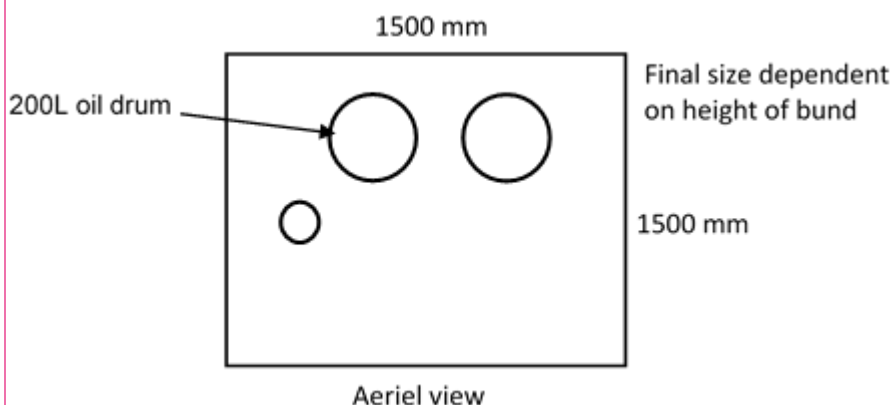
Other useful information for diesel skid tank:

1. Checklist of documents required for diesel skid tank:

No	Item	Status (✓ or X)
1	License/Permit for scheduled controlled goods ¹ Supporting documents required for license application are: a) Company registration b) License from supplier c) License from local authority d) Approval letter from Fire and Rescue Department on the concerns of siting, storage and volume	
2	Labelling of diesel skid tank a) Name and address of the owner b) Contact details of person in-charge c) Location/ address of the skid tank placed d) Storage capacity e) Reference number of the permit for scheduled controlled goods (diesel) f) Limit of the storage capacity	

- The secondary containment facility provided at site should comply with the approved design by Fire and Rescue Department
- Recovery sump and oil trap may be used upon consideration of the site condition
- Fueling activities shall be handled with care to avoid spillages

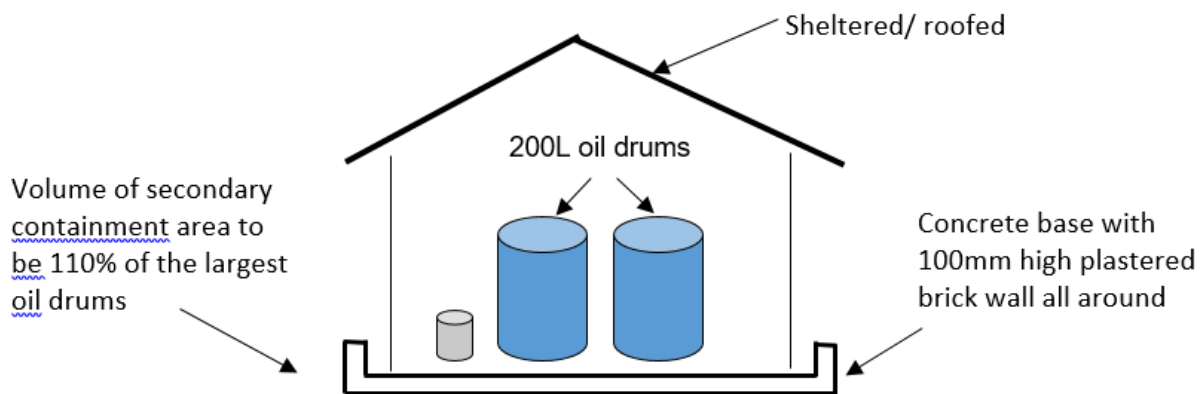
Section B: Oil-based products in drums/ containers



Calculations:

$110/100 \times 200 \text{ L} = 220 \text{ L}$
The volume of containment bund should be at least or more than 220 L

In the example given,
 $1500 \text{ mm} \times 1500 \text{ mm} \times 100 \text{ mm}$
 $= 225,000,000 \text{ mm}^3$ or 225 L (> 220 L)



¹ <http://www.kpdnkk.gov.my/kpdnkk/scheduled-controlled-goods/?lang=en>



DISCLAIMER: The information in this document are prepared for a brief understanding on Environmental Impact Management in Palm Oil Mill in Malaysia and have been compiled using various sources publicly available. Every effort has been made to ensure that all relevant data have been included; however TFT does not claim that the information in this guideline is exhaustive. Further, this document does not purport to contain all the information that the end user or reader including but not limited to employers, buyers, importers, manufacturers, suppliers or distributors (collectively "End User") may desire in understanding regarding the processes, practices or laws in Malaysia in respect of Environmental Impact Management in Palm Oil Mill in Malaysia. The intent of this document is to provide basic guideline which may be of some help to the End User. With the help of this document, the End User should re-ensure that the relevant laws, rules, regulations and guidelines are applicable, suitable, updated and relevant to their company or business as a whole.

