

Attachment G.1 Raw Materials and Product

The only raw materials proposed to be used are biodegradable waste as detailed in Section H. It is proposed to use steam cleaners for cleaning the facility and the vehicles before they leave the facility, where required.

A 20,000lt diesel fuel storage tank and associated delivery system will be installed to supply fuel for the wheel loaders/Loadall on-site. The system, including the delivery nozzle, valves and pump will be fully bunded to 110% capacity with bund check sensor. Based on extensive experience with equipment used for similar purposes at other similar facilities, it is calculated that approximately 40,000litres of diesel per annum will be used.

A 2,000lt bunded fuel oil storage tank may be installed to provide central heating for the office area. It is anticipated that this tank will be filled once per annum.

To fulfil ABP regulations requirements, as a precautionary measure, disinfectant footbaths will be placed at all relevant critical control point access/egress areas to prevent contamination in "clean" areas and external to the processing area. A disinfectant will be used for the footbaths as required by *Annex 2, List of Approved Disinfectants (September 2004)* in the document "Conditions For Composting Of Animal By-Products In Ireland" published by the Department of Agriculture in line with the Diseases of Animals (Disinfectants) Order, 1975 (Amendment) Order, 1978. It is estimated that approximately 1litre per footbath will be required and this will be topped up as required. It is estimated that approximately 50 litres per annum will be required. A list of these approved disinfectants is attached but only one or two of these disinfectants will be used at the facility. Once the appropriate disinfectants are selected for the facility, details of the disinfectants will be forwarded to the EPA will all relevant information.

**DEPARTMENT OF AGRICULTURE AND FOOD
LIST OF APPROVED DISINFECTANTS (September 2004)**

Agrisept MC Tabs* (see note)	Kick Start 2
Antec Ambicide	Novagen FP
Antec Farm Fluid S	Omnicide 325
Antec Hyperox	Opticide 200
Antec Long Life	Osmodex
Antec Long Life 250s	Purogene
Antec New Formula Farm Fluid	Seprivet 17
Antec Virkon S	Sorgene 5
Antec Virudine	Spectocide 2000
Bio Guard	Supercide
Bio Kill	Superdine
Bio Phen	Superkill
Bio Phen Plus	SWC Bacto Detsan
Bio Shield	SWC Maxikleen
Bio VX	Tego 2000
Chlorasol	Tegodor FARM
Citrox	Trigene II
Clinidine	V26
Deosan Iodel FD	Vandox
Dermicidal Extra	Vesphene D39
Enviroguard	Verucidal Extra
Equissept*	Virex
FAM (New Formulation)	Virochlor
FAM 30	Virophen
GPC 8 (New Formulation)	Virophen Plus
Iodosure Bio	Virophor 2.8%
Iosan Farm Disinfectant	Viroshield
Jeyes Fluid	Zal Perax II

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Attachment G.2 Energy Efficiency

The key objective of installing this Biogas/Composting facility is to generate three products: - electricity, heat energy and compost/stabilised biowaste, all useful products from waste that would otherwise be sent to landfill.

A complete mass and energy balance has been calculated and it is conservatively estimated that the biogas/AD process will generate > 801KW of electrical energy and >881KW of heat energy.

As part of the detailed design, the process will utilise, where possible, energy efficient technologies including variable speed drives and energy efficient motors for all the large energy users such as the air extraction/blower system. It is estimated at the time of the application that the process will consume approximately 300KW/annum of electricity and 875KW/annum of the heat energy generated. All surplus electricity generated will be fed into the National Grid.

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