

Attachment No. L

- a) **Requirements of Section 83(5)(a)(i) to (v) and (vii) to (xa) of the Environmental Protection Agency Act 1992.**

The requirements of Section 83(5)(a)(i) to (v) and, having regard, where appropriate, to any relevant specification issued by the Agency under section 5 (3) of the Act are set out below:

Air Pollution Act, 1987

- (i) *any emissions from the activity will not result in the contravention of any relevant air quality standard specified under section 50 of the Air Pollution Act 1987, and will comply with any relevant ELV specified under section 51 of the Air Pollution Act 1987,*

The Air Quality Standards Regulations 2011 (SI No. 180 of 2011) supersede the Air Pollution Act, 1987 (Air Quality Standards) Regulations (SI No. 271 of 2002) and specify ambient air quality standard limit values for nitrogen dioxide, sulphur dioxide, particulates, lead, benzene and carbon monoxide and implement a number of European Directives.

The emissions from the existing and proposed air emission points are based on BAT, thereby ensuring that emissions to atmosphere will not lead to any exceedance of ambient air quality standards. This has been proven through the use of a comprehensive air dispersion modelling exercise completed in Section 10 of the EIS.

Water Pollution Act, 1977

- (ii) *any emissions from the activity will comply with, or will not result in the contravention of, any relevant quality standard for waters, trade effluents and sewage effluents and standards in relation to treatment of such effluents prescribed under Section 26 of the Local Government (Water Pollution) Act 1977 & 1990, as amended,*

ERAS ECO Ltd has reviewed the European Communities Environmental Objectives (Surface Waters) Regulations 2009 (SI No. 272 of 2009) and can meet it's obligations for it's discharge to sewer (SE 1) without any additional abatement / treatment systems required on-site. The existing treatment plant is sufficiently sized to cater for the proposed development.

European Legislation

- (iii) *any emissions from the activity or any premises, plant, methods, processes, operating procedures or other factors which affect such emissions will comply with, or will not result in the contravention of, any relevant standard including any standard for an environmental medium prescribed under regulations made under the European Communities Act 1972, or under any other enactment,*

The ERAS ECO Ltd facility has been designed in accordance with relevant BAT standards / guidance and the emissions from the facility will be in compliance with any European Standards.

Noise

- (iv) *any noise from the activity will comply with, or will not result in the contravention of, any regulations under section 106, and*

Section 106 of the EPA Act, 1992 enables the Minister for the Environment to make Regulations for the purpose of the prevention or limitation of noise which may cause a nuisance. The EPA Guidance Note for Noise in relation to Scheduled Activities recommends that to avoid disturbance the noise level at sensitive locations should not exceed a $L_{Aeq T}$ value of 55 dBA during the daytime and 45 dBA at night-time. It also recommends that audible tones and impulsive noise at sensitive locations at night should be avoided.

All waste processing is and will continue to be carried out either indoors or in fully enclosed units. Noise surveys carried out to assess the noise from the proposed changes have established that they will not cause an impact at the nearest residence, which is located approximately 250m away. The proposed changes will have a neutral impact.

- (v) *any emissions from the activity will not cause significant environmental pollution.*

The requirements will be achieved by complying with the emission limit values (ELVs) and operational controls that are specified by the Agency in the IE Licence. In this context an assessment of the impacts of emissions from the facility, including noise, is presented in the Environmental Impact Statement that accompanies the licence application. The assessment confirms that emissions from the facility will not breach any relevant air or water quality standard or cause significant environmental pollution.

The requirements of Section 83(5) (a) (vii) to (x) and, having regard, where appropriate, to any relevant specification issued by the Agency under section 5 (3) of the Act will be achieved by the following:

- (vii) *any waste generated at the facility will have regard to Part III of the Act of 1996, where the production of waste in the carrying on of the activity will be prevented or minimised or, where waste is produced, it will be recovered or, where that is not technically or economically possible, disposed of in a manner which will prevent or minimise any impact on the environment.*

The facility will generate small volumes of office and canteen type wastes. ERAS ECO Ltd operates a source segregation policy to maximise the recovery of potential recyclable materials from these waste streams. All recovered materials are transferred off-site to recovery/recycling facilities.

Foul effluent generated at the site comprises sanitary wastewater from the offices which is treated in an on-site proprietary treatment system (Puraflo®). The discharge from this system is sent to the site's wastewater treatment plant where process effluent is treated.

The AD plant will generate a liquor which will be recirculated to the digesters and, where necessary, treated in the on-site WWTP.

The fibre from the AD plant will be treated in the sludge drying process.

The biogas will be treated before being used as a fuel in an on-site CHP plant, which will produce heat and electricity that will meet on-site energy needs or exported to the national grid.

(viii) *any energy used to treat the waste will be used efficiently in the carrying on of the activity.*

The boiler for sludge drying utilises mainly wood (renewable resource) for its energy source with low sulphur diesel fuel used as a back-up. The proposed AD plant should generate enough heat and power through the CHP plant to make the site very energy efficient.

The reuse of collected rainwater on-site will also reduce the requirement for mains water.

(ix) *necessary measures will be taken to prevent accidents in the carrying on of the activity and, where an accident occurs, to limit its consequences for the environment, and in so far as it does have such consequences, to remedy those consequences.”*

ERAS ECO Ltd has prepared an Emergency Response Plan and an Environmental Liability Risk Assessment, both of which have been submitted to the Agency.

(x) *necessary measures will be taken upon the permanent cessation of the activity (including such a cessation resulting from the abandonment of the activity) to avoid any risk of environmental pollution and return the site of the activity to a satisfactory state.”*

ERAS ECO Ltd have prepared a Decommissioning Management Plan that has specified the actions that will be implemented in the event of the closure of the facility and this has been submitted to the Agency.

(xa) *in the case of an industrial emissions directive activity, necessary measures referred to in subparagraph (x) including measures of appropriate duration shall be taken in accordance with section 86B.*

A Baseline Report has been prepared for the site.