

Project:

Østfold Avfallssortering IKS - MRF

Title:

APPENDIX D4

ENVIRONMENTAL MANAGEMENT PROGRAM



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1 INTRODUCTION

The project's Environment Management Programme (this document) defines environmental ambitions and targets. It outlines where responsibility for the external environment will be placed and allocated, and how the project will reach its environmental targets.

2 ENVIRONMENTAL AMBITIONS

Østfold Avfallssortering IKS will work proactively at all stages of the project to protect the environment; “a zero waste philosophy”. This will be achieved through planning and quality assurance which will protect the environment and surroundings.

The objectives of planning and building the plant are to ensure proper and environment-friendly processing of desired material.

Contractor shall ensure that there is progression during the construction phase for:

- Ensuring that building and running the plant will not conflict with the overall guidelines for pollution and the local environment.
- Arranging the project's activities and progress to limit any inconvenience for neighbours and the local environment during the construction period.
- The finished plant will be environment-friendly and require the minimum amount of energy. The plant shall have a set of positive environment accounts.

3 CONTROL AND MANAGEMENT

3.1 Establishing requirements for contractors

Requirements and guidelines for the environment shall be built into all contracts with contractors and suppliers on the same basis as other requirements.

3.2 Contractor's environment management system

Contractor shall prove that they have satisfactory environmental competence. Contractor shall have a system for internal control, which proves how the environmental requirements of the project are met. The system shall outline the Contractor's control and risk assessment of environmental aspects related to contractual work.

4 ENVIRONMENTAL TARGETS AND MEASURES

4.1 Transport

The following targets must be met:

- Transportation to and from the site shall not incur significant inconvenience for the local area.

Transportation measures:
Contractor shall write a plan for traffic to and from the project during the construction phase. Unless specific permission is given there are no transport to and from site between 19:00 and 07:00
Contractor shall devise transport solution and routines which cause the minimum inconvenience for neighbours and the immediate surroundings during the operational phase of the plant
Client shall ensure that neighbours and other affected parties are informed of planned transportation to and from the site

4.2 Noise during construction work

The following targets must be met:

- Noise from construction work shall not exceed the values stipulated in the regulations on protection against noise on construction sites.
- Construction workers shall not be exposed to harmful levels of noise.
- Indoor noise levels in the sorting plant when running shall meet limit values in the regulation on protection against noise in workplaces.
- The project shall avoid affecting noise-sensitive areas.

Noise prevention measures:
Contractor shall define and control actual noise levels from construction work
Contractor shall ensure that construction workers use ear protection when exposed to harmful noise
Contractor shall design the plant such that regulations on noise on construction sites are met

4.3 Air

The following targets must be met:

- Odour from the plant in operation must not affect the working or external environment.

Measures against air pollution:
Contractor shall minimise exhaust emissions from machinery and vehicles
Client shall perform the necessary maintenance of roads to reduce the spread of mud and dust

4.4 Lighting

The following targets must be met:

- Light pollution at night shall be minimised, such that energy consumption and inconvenience for neighbouring properties is reduced.

Light pollution prevention measures:
Client shall ensure that permanent outdoors lighting is concentrated in designated areas and that light shining upwards from the building is kept to a minimum
Contractor shall ensure that light pollution is kept to a minimum at night during the installation phase

4.5 Waste

Any waste produced as a result of construction shall be sorted, processed and disposed of according to requirements and regulations in force.

Further reference is made to Appendix A1, chapter 10.2.

Contractor shall provide waste containers and ensure they are emptied.

The following targets must be met:

- Waste generated on the site must be kept to a minimum.
- All hazardous waste shall be sorted at source and delivered to an approved disposal site.

Measures for waste processing from the site:
Contractor shall arrange construction activities to ensure low waste production
Contractor shall protect materials against moisture and other damage
Contractor shall ensure the provision of good routines for waste handling on the site

Contractor shall devise a general plan for waste handling on the site
Contractor shall ensure that the siting and design of waste stations will optimise a high degree of sorting
Contractor shall keep a set of accounts of the amount of waste generated and degree of sorting

4.6 Materials

Products shall be selected for construction with no or low content of substances harmful to health or the environment. Materials and products shall have properties which give low or no pollution of air indoors.

The following targets must be met:

- Avoid of substances harmful to health and the environment.
- Materials used shall contribute to the lowest possible emissions of greenhouse gases.

4.7 Energy

The following targets must be met:

- The plant shall be designed and built to minimise energy consumption when in operation.

Measures for energy:
Contractor shall ensure that the plant has an energy-optimised design

4.8 Health and the indoor environment

The following targets must be met:

- The plant shall provide a good working environment.

Measures for health and the indoor environment:
Contractor shall ensure that dust and gasses are under the accepted limits