# General information regarding character of Serious Industrial Accident hazard including their potential impact on humans and environment

Facility	Source	Hazardous Substance	Hazard Characteristics	Basic Accident Scenario – Physical Exhibitions
CRM	RR cistern car30 t	Ammonia	Ammonia Leak while siphoning RR cistern	immediate leak - toxic dispersion continuous leak - toxic
				dispersion
CRM	warehouse 3x30t	Ammonia	Ammonia leak from storage tanks	immediate leak - toxic dispersion
				continuous leak – toxic dispersion
Coated prod. and Tin	RR cistern car30 t	Ammonia	Ammonia Leak while siphoning RR cistern	immediate leak - toxic dispersion
				continuous leak – toxic dispersion
Coated prod. and Tin	warehouse 2x30 t	Ammonia	Ammonia leak from storage tanks	immediate leak - toxic dispersion
				continuous leak – toxic dispersion
Power Engineering	BF gas holder	BF gas	BF gas leak from BF gas holder	immediate leak of the entire gas holder volume
				continuous leak of the entire volume
Steel shops	converter gas holder	converter gas	BOF gas leak from BOF gas holder	immediate leak of the entire volume
				continuous leak of the entire volume
Power Engineering	section A2+C2+C3	BF gas	BF gas leak	continuous leak - toxic dispersion-
CRM - annealing	pipeline DN 108	Ammonia	Ammonia leak from pipeline	continuous leak - toxic dispersion.
Power Engineering	Section F4	natural gas	Natl gas leak from pipeline	continuous leak

# BF gas

# Impact on Humans

Extremely flammable gas. May cause or contribute to development of fire; oxidation agent. Toxic when inhaled. May cause dizziness or drowsiness. May damage fertility or damage unborn child. Causes damage of body organs.

Impact on Environment BF gas is toxic for fish.

# **BOF** gas

#### Impact on Humans

Extremely flammable gas. May cause or contribute to development of fire; oxidation agent. Toxic when inhaled. May cause dizziness or drowsiness. May damage fertility or damage unborn child. Causes damage of body organs.

Impact on Environment BOF gas is toxic for fish.

#### Ammonia

# Impact on Humans

Flammable. Toxic when inhaled. Contains gas under pressure, when heated may explode. Causes serious burns and eye damage. Very toxic for water organisms.

# Impact on Environment

May change pH of water ecology systems. Very toxic for water organisms.

### Natural gas

# Impact on Humans

Does not possess toxic or poisonous characteristics. Under imperfect combustion may develop poisonous CO gas.

High concentration of natural gas replaces air Oxygen, while lack of Oxygen may cause sudden loss of consciousness and death. High concentrations of the gas or vapors may result in narcotic or anesthetic influence that may lead to undesirable impact of ones' judgement and lead to CNS depression.

# Impact on Environment

Natural gas (methane) and its combustion products are Green House Gases.