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Kontrolmatik
Technologies



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	HSE RISK MANAGEMENT PROCEDURE				
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1. PURPOSE

The purpose of HSE Risk Management Procedure is to ensure the prevention of accidents from machines and equipment having no guard and protection system, alarm system, etc.

2. SCOPE

The scope of this HSE Risk Management Procedure covers Market of National Interest & Truck Station Area.

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3. REFERENCES

DM HSE Plan

SOGIP HSE Requirements

H&S Regulations

4. DEFINITONS & ABBREVIATIONS

Hazard	Source or situation with a potential for harms in terms of injury or ill, damage to property, damage to the workplace environment, or a combination of these.
Hazard Assessment	The examination of the impact and results of the threats in case that they are realized.
Hazard Identification	Process that aware the hazard and describe the properties hazards.
Risk	Combination of the likelihood and consequences of a specified hazardous event occurring.
Risk Assessment	Overall process of estimating the magnitude of risk and deciding whether or not the risk is tolerable.
Tolerable Risk	Risk that has been reduced to a level that can be endured by the organization with regard to its legal obligations and its own HSE policy.

5. METHOD

5.1 Environmental Aspects / Assessment of Hazards and Risks ve Risk Control

5.1.1 Determination of Environmental Aspects

At DM's project sites and workplaces environmental aspects are determined, evaluated and updated in accordance with activities, services and products. DM's environmental aspects are listed below:

- Explosion
- Fire
- Gas leakage
- Dust
- Chemical substances
- Noise and vibration produced by the machinery and equipment
- Odor
- Medical wastes



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- Solid wastes
- Liquid wastes
- Waste gases
- Spilling of materials from transportation vehicles and equipment
- Land usage
- Construction and usage of the roads
- Visual pollution created by activities, camps, storage facilities, offices and facilities,
- Activities near the living areas and/or effects of construction activities on living areas.

5.1.2 Determination of Environmental Impacts and Hazard Identification

The environmental aspects mentioned above cause the adverse environmental impacts mentioned below:

- Harmful effects on the human health and life
- Air pollution
- Noise pollution
- Soil pollution
- Bad odor
- Visual pollution
- Harmful effects on natural resources
- Harmful effects on the flora
- Harmful effects on the fauna
- Harmful effects on the local community
- Harm on the roads
- Harm on the living areas, which are near the activities.

5.2 Parameters mentioned below for hazard identification will be considered:

- Location of machinery, apparatus and equipment at working area,
- Protective systems of the machinery, apparatus and equipment,
- Conditions of machinery, apparatus and equipment,
- Periodic maintenance and controls of machinery, apparatus and equipment,
- Condition of the operation area,
- Physical and chemical conditions of the working environment,



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- Ergonomic conditions,
- Professional experience and occupational training level of employees,
- Health conditions of the employees,
- Morale and motivation of the employees,
- Unsafe acts of employees,
- Frequency of HSE inspections audits and controls.

5.3 Evaluation of Environmental Impacts and Hazards

For the evaluation of environmental impacts and hazards, below mentioned issues will be considered:

- Activities which may be caused or caused to environmental pollution and job accidents and occupational disease at our workplaces.
- Adverse effects of each activity on health, safety and environment.
- Determination of risk level of adverse impact on environment, safety and health.
- Informing the interested parties on determined health, safety and environment risks.
- Determine the risk control measures for minimization and/or elimination of risks.

Health, safety and environmental risks identification and evaluations of project are carried out by DM's Project Management and HSE Management. At project sites, Work is not started if no risk assessment, required permits and/or written permits of DM HSE Management and Client and safety measures is not taken.

The below mentioned issues are considered for the assessment of the environmental impacts, health and safety risks.

- Direct impacts,
- Indirect impacts,
- Normal working conditions,
- Abnormal working conditions,
- Extraordinary situations,
- Activities, services and products.

Health, safety and environmental risk studies provides data to environmental, health and safety objectives and targets. Health, safety and environmental risk assessments **without routine implementations is also reviewed below mentioned issues:**

- Major changes in normal operation,
- Major changes in duties and responsibilities,
- Accidents and emergency situations,



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- Major changes in working conditions,
- Major changes in machinery, equipment and chemical substances,
- Changes in HSE legislations, laws, regulations and standards and client HSE requirements.

5. 4 Risk Assessment

(S) Health & Safety Severity/Consequence

S1 Minor injury - No time off

S2 Injury - Up to 3 days off

S3 Injury - More than 3 days off

S4 Fatal

S5 Catastrophic - Multiple fatalities

(E) Environmental Severity /Consequence

E1 No problem

E2 Minor Environmental Incident

E3 Environmental Incident which causes actual environmental harm or statutory nuisance of a temporary nature

E4 Damaging impact on the environment requiring remediation works or posing temporary threat to public health

E5 Major pollution incident causing widespread irrecoverable environmental harm or actual harm to public health

(L) Likelihood/Probability

1 Highly unlikely

2 Unlikely

3 Possible

4 Likely

5 Very likely

(R) Risk rating (Consequence * Likelihood)

1 to 2 Acceptable

3 to 7 Acceptable - Minor risks remain, control measures to be reviewed further

8 to 14 Significant risks - Further control measures to be applied to reduce results to acceptable

15 to 25 Critical risks - Not acceptable



5.5 Risk Matrix

Risk rating determines 3 risks categories.

1-2 Tolerable

3-14 Carefully Investigation/Examination

15-25 No tolerable

Risk	Result				
	1	2	3	4	5
Probability	Tolerable				
	Detailed Investigation / Examination				
				No tolerable	

6. RESPONSIBILITIES

Site Manager/Supervisor/Engineer:

The Manager/Supervisor/Engineer is responsible for ensuring that:

- Evaluate the HSE risks related with scope of the works.
- Brief the workforces on related hazards risk and measures.
- Review the hazards and risks.
- Monitor the effectiveness of risk evaluation.

H&S Team:

The Manager/Supervisor/Engineer is responsible for ensuring that:

- Assist the evaluation of HSE hazards and risks.
- Checking and inspection of HSE control measures in accordance with risk assessment.

All Personnel:

All personnel are responsible for:



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- Obeying/complying with safety measures/corrective actions of risk evaluations.
- Attending the briefing on Risk Assessment.