

ETHEKWINI MUNICIPALITY Occupational Health & Safety Unit

BASELINE RISK ASSESSMENT

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Document Title	Baseline Risk Assessment
Client	EThekwini Municipality – Human settlements
Project	Refurbishment of Block D, 58 Units at Dalton Community Residential Units
Contract Number	1H-23558
Internal reference	BRA127/06/2023
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	Date: 16/06/2023

BASELINE RISK ASSESSMENT

- 1. INTRODUCTION: In accordance with the Occupational Health and Safety Act, (Act 85 of 1993) the Legislator places specific requirements on an Employer. One of these is prescribed in Section 8(i) of the Act where it requires the Employer to ascertain the risks and dangers which may occur within the workplace or section of the workplace and then goes on to establish working procedures or practices.
- **2. PURPOSE:** This is conducted to create a benchmark of the potential risks that apply to the whole project or business operation.
- **3. SCOPE:** This assessment could be approached on a site, regional or national level concerning any facet of the business operation or process or activity.

4. REVIEW AND MONITORING PLAN

The risk assessment form part of the health and safety plan to be applied on the site and must include the following:

- (a) The identification of the risk and hazards to which persons may be exposed.
- (b) An analysis and evaluation of the risk and hazards identified based on a documented method,
- (c) A documented plan and applicable safe work procedures to mitigate, reduce or control the risks and hazards that have been identified;
- (d) A monitoring plan; and
- (e) A review plan

5. REFERENCES

- (a) Tender document number 1H 23558
- (b) Occupational Health & Safety Act and its Regulation

6. LOCALITY PLAN



SCOPE OF WORK

Repairs and alterations

Existing services Demolition Public safety Blockwork and Plaster Site establishment Traffic accommodation Concrete works Local businesses Painting Roof work and maintenance Installation of geysers Excavation work Use of hand-tools and electrical tools Corona virus Construction vehicle and mobile plants Site security

Working in a fall risk position

1. RISK ESTIMATION AND EVALUATION RISK

CLASSIFICATION USING A RISK SCORE TECHNIQUE

Continuously	
Frequently (daily)	10
Occasionally (weekly) Unusually (monthly)	6
Unusually (monthly)	3
	2
	1
Probability (P) The probability of a loss when the hazardous event does or	ccur Risk level
Frequent (happens often)	10
Probable (quiet possible)	6
Occasional (unusual, but possible)	3
Remotely possible (has happened somewhere)	1
Improbable (practically impossible)	0.5
everity (S) Consequences of the hazardous event	Risk level
Catastrophic many fatalities; or interruption of longer than 2 weeks; or asset or environmental damage (or both) exceeding R100m	100
Disaster (few fatalities; or interruption between one and 2 weeks; or asset or environmental damage (or both) exceeding R10m)	40
Very serious (one fatality; or interruption of 6 days; or asset or environmental damage (or both) exceeding R100,000	7
Important (temporary disability; or interruption between 6 and 24 hours; or damage exceeding R10,000	3
Noticeable (first aid needed; or interruption of less than 6 hours; damage exceeding R1000)	1

BASELINE RISK ASSESSMENT WORKSHEET: IDENTIFYING EXISTING & POTENTIAL RISKS

	Activity	Hazard	Risk		Risk Evaluation		Risk Score	Risk level
				Е	Р	S		
1	Repairs and alterations							
	 Removing and installation of windows; doors 	 Broken glasses; manual handling; Flying objects 	 Injury to body; Injury to eyes 	3	6	1	18	1
2	Existing services							
		 Improper disconnection and connection; Unforeseen existing services; Electrocution 	Distraction of services in the area; community unrest; Burns; death;	3	6	7	126	3
3	Demolition	I	L	1		I	1	

	Mechanical and manual demolition	 Collapsing of structures; Noise; Dust; Flying objects; Machinery running out of control; Manual handling of tools 	 Injury to body; Noise induced-hearing loss; Respiratory disease; Damage to eyes; Damage to nearby properties; Injury to hands 	6	6	3	108	3
4	Public safety							
		 Public exposure to construction activities; community unrest; fighting over resources 	 Injury to body; work stoppage; Legal claims 	6	6	3	108	3
5	Blockwork and Plaster							
		 Unsafe working at height platforms; Unsafe hand tools; Contact with mortar; Flying objects 	 Fall risk; broken bone; dislocation; Injury to hands; Skin dermatitis; Damage to eyes 	6	6	3	108	3

6	Site establishment							
	 Manual and mechanical clearing of the land. Off-loading and positioning of containers by mobile crane. Fencing. Installation of temporary water supply, electricity, ablution facilities 	 Incompetent construction mobile plant operator. Manual Handling of equipment and materials. Uneven surfaces. Driving on dangerous and undulating 	Body injuries/ Accidents. Destruction of services. Burns/ death	2	6	7	84	3
		terrain. Reckless driving. Electrocutio Incorrect/ poor connection temporary services						
7	Traffic accommodation		'			·	1	

Poor traffic control; Pedestrians passing by	 Collision; accidents; damage to nearest properties; Injury to employees and public 	6	6	3	108	3
• Concrete spillage; Concrete contact with body.	Soil contamination; Skin problems	3	3	3	27	2
• Exposure to construction activities; Distraction of businesses; Work stoppage	• Injury to body; Financial losses; Lawsuits; Fights between stakeholders; Loss of	6	6	3	108	3
	control; Pedestrians passing by Concrete spillage; Concrete contact with body. Exposure to construction activities; Distraction of businesses; Work	control; Pedestrians passing by Concrete spillage; Concrete contact with body. Exposure to construction activities; Distraction of businesses; Work Camage to nearest properties; lnjury to employees and public Soil contamination; Skin problems Injury to body; Financial losses; Lawsuits; Fights between stakeholders;	control; Pedestrians passing by Concrete spillage; Concrete contact with body. Exposure to construction activities; Distraction of businesses; Work Control; accidents; damage to nearest properties; Injury to employees and public Soil contamination; Skin problems Injury to body; Financial losses; Lawsuits; Fights between stakeholders;	control; Pedestrians passing by Concrete spillage; Concrete contact with body. Exposure to construction activities; Distraction of businesses; Work Control; accidents; damage to nearest properties; Injury to employees and public Soil contamination; Skin problems Injury to body; Financial losses; Lawsuits; Fights businesses; Work Control; Accidents; Accide	control; Pedestrians passing by Concrete spillage; Concrete contact with body. Pexposure to construction activities; Distraction of businesses; Work Accidents; damage to nearest properties; Injury to employees and public Soil contamination; Skin problems Injury to body; Financial losses; Lawsuits; Fights between stakeholders;	control; Pedestrians passing by Concrete spillage; Concrete contact with body. Exposure to construction activities; Distraction of businesses; Work Control; accidents; damage to nearest properties; Injury to employees and public Soil contamination; Skin problems Financial losses; Lawsuits; Fights between stakeholders;

11	Roof work and mainte	Body contact with paint; Paint inhalation enance	 Skin irritation/ disease; Respiratory disease 	3	6	1	18	1
	 Removing and installing of roof; High pressure cleaning 	 Working on fall risk position; Unsafe roof access; Untrained roof erectors; No/ 	Falling from; Falling into; broken borne; death; disablement; Head injuries	6	6	7	252	4
12	Installation of geysers							
		Manual lifting of heavy objects; Elevated positions	 Injury to spinal cord; Muscle pain; Falling of lifted objects; Pinch by object 	3	6	3	54	2

13	Excavation work

Manual and mechanical excavation	Unsafe hand tools; Unsafe construction mobile plants; Uneven surface/ ground condition; Incompetent construction mobile plant operator; Oil leak; Unforeseen underground services	Broken borne; dislocation; Accidents; injuries to hands; Falling into excavation; Ground contamination	3	6	3	54	2	
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14	Use of hand-tools and electrical tools							
	 Conducting activities using	 Unsafe hand-tools/ electrical tools. Possible of pinch 	 Injury to hands 	6	3	1	18	1
15	Corona virus							

	 Transportation of employees Use of site facilities and hand-tools Preforming construction work Meeting/ toolbox talks 	 Non- compliance with COVID19 Codes of practice; Sharing of facilities and hand tools; Failure to use disinfectants; Virus contaminated vehicle, facilities and tool; Being in an enclosed place 	Employees could be infected with COVID19 virus, severe illness or death; Could be prosecuted or fined	6	3	7	126	3
16	Construction mobile plants	and vehicles						
	Use of construction vehicles and mobile plants and equipment	 Unsafe construction plants and equipment. Incompetent drivers or operators. Oil leaks 	 Accidents; injury to employees and public; death; disablement; damage to property. Environmental contamination 	6	6	7	252	4
17	Site security			•	•	•	•	

	•	Unguarded site camp; Inadequate security provision; No safe access control	 Loss of material and equipment/ financial risks/ theft/ unlawful invasion or damage new of houses 	6	6	3	108	3
18	Working in a fall risk positions							
	•	Falling into; Falling from; Medical unfit; Untrained person	Broken borne/ disablement/ death	6	6	7	252	4

RISK PROFILE:

Refurbishment of Block D, 58 Units at Dalton Community Residential Units 1H-23558

