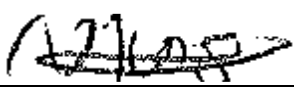
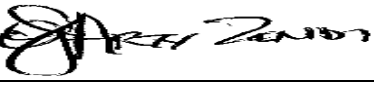




ETHEKWINI MUNICIPALITY Occupational Health & Safety Unit

BASELINE RISK ASSESSMENT

Document Title	Baseline Risk Assessment
Client	EThekwini Municipality – Human settlements Unit
Project	Construction of new 96 units at uMlazi T CRU: Phase 3B (ward 89)
Contract Number	1H-22892
Internal reference	BRA33/05/2024
Compiled by (Safety officer)	Name and surname: Siya Nkosi Signature:  Date: 09/05/2024
Reviewed by (Manager: Safety & Risk)	Name and surname: Arty Zondi Signature:  Date: 09/05/2024

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-22892
- (b) Occupational Health & Safety Act and its Regulations

6. LOCALITY PLAN

Nil

SCOPE OF WORK

Electrical installations

Existing services

Hand tools and electrical tools

Construction vehicles and mobile plants

Corona virus

Public safety

Elevated positions

Excavations

Concrete works

Blockwork

Roof work

Temporary works

1. RISK ESTIMATION AND EVALUATION

RISK CLASSIFICATION USING A RISK SCORE TECHNIQUE

Exposure € How frequently does the hazardous event occur		Risk level
Continuously		10
Frequently (daily)		6
Occasionally (weekly)		3
Unusually (monthly)		2
Rarely (few a year)		1

Probability (P) The probability of a loss when the hazardous event does occur		Risk level
Frequent (happens often)		10
Probable (quite possible)		6
Occasional (unusual, but possible)		3
Remotely possible (has happened somewhere)		1
Improbable (practically impossible)		0.5

Severity (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

Risk classification (Risk score = E x P x S)	
Risk score	Risk level
Over 400-----5	Very high risk – discontinue operation or activity
200 to 400 ----- 4	High risk – immediate correction needed
70 to 200----- 3	Substantial risk – correction needed
20 to 70----- 2	Possible risk – attention needed
Under 20 ----- 1	Risk accepted

BASELINE RISK ASSESSMENT WORKSHEET: IDENTIFYING EXISTING & POTENTIAL RISKS

	Activity	Hazard	Risk	Risk Evaluation			Risk Score	Risk level
				E	P	S		
1	Electrical installations							
		Incompetent personnel. Unsafe hand-tools/ electrical tools. Unsafe ladder. Electrocuton	Improper installation of electricity/ non-compliance with safety standards. Injury to hands. Burns; electric shock	3	3	7	63	2
2	Existing services							
	Water; electricity; Paving/ tar	Damage to existing services; Improper connection/ disconnection	Destruction/ loss of services in the area.	6	3	1	18	1
3	Hand tools and electrical tools							
		Unsafe tools; Untrained or unauthorized operator;	Injury to body; damage of tools	6	3	1	18	1
4	Construction mobile plant and vehicles							
		Untrained operator or driver; noise;	Collision with other vehicles; damage to	6	6	7	252	4

		dust; vibration; other vehicles	property; noise induced hearing loss; body pain; death; disablement ect.					
5	Corona virus							
	• Transportation of employees • Use of site facilities and hand-tools • Performing 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 • Not using protective gear • Failure to apply	• Employees could be infected with COVID19 virus, severe illness or death • Could be prosecuted or fined	6	3	7	126	3

		distancing						
6	Public safety							
		Public exposure to construction activities; fighting over resources	Injury to body; work stoppage; Legal claims	3	6	3	54	2
7	Elevated positions							
		Falling from; falling into	Death; Broken bone; Disablement	6	6	7	252	4
8	Excavations							
	Manual and mechanical excavation of trenches using construction mobile plants and hand tools	- Collapsing of trenches. - Unsafe access to trench - Unsafe machinery/ hand tools - Unprotected trenches - People exposure to excavations - Engulfment	- Death/ buried/ trauma/ panic attack - Broken bone/ dislocation/ - Accidents/ injuries to hands, - Falling into excavation - Death/ broken bones	6	6	7	252	4
9	Concrete works							

		- Concrete spillage. - Concrete contact with body	- Soil contamination - Skin problems	3	3	3	27	2
10	Blockwork							
		Unsafe working at height platforms; Unsafe hand tools; Contact with mortar	Fall risk; broken bone; dislocation; Injury to hands; Skin dermatitis	6	6	3	108	3
11	Roof work							
		Working on fall risk position; Unsafe roof access; Untrained roof erectors; No/ poor roof work planning; Collapsing of the roof; Falling objects	Falling from; Falling into; broken borne; death; disablement; Head injuries	6	6	7	252	4
12	Temporary works							
		Collapsing of temporary structure; Incompetent temporary supervision; Noncompliance	Death; temporary or permanent disable; incorrect erection of temporary	3	6	7	126	3

		with engineers drawing/ instruction; Unsafe temporary works	works; Injuries to body					
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RISK PROFILE:

CONSTRUCTION OF NEW 96 UNITS AT UMLAZI T CRU: PHASE 3B (WARD 89) 1H-22892

