

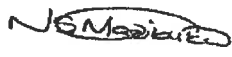
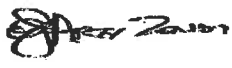
ETHEKWINI MUNICIPALITY

Occupational Health & Safety Unit



SITE BASELINE RISK ASSESSMENT

Construction Regulations 5.1.(a)

Document Title	Baseline S.H.E. Risk Assessment
Client	EThekwin Municipality- COASTAL STORMWATER & CATCHMENT MANAGEMENT
Project Name	64 Bhubesi place, AA 388 Umlazi, Repair of Streambank Protection Works- Ward 84
Contract Number	1D-43471
Date	10.12.2021
Compiled by (Safety Officer)	Name and Surname: <u>Ntombifuthi Mazibuko</u> Signature:  Date: <u>10.12.2021</u>
Approved by (Safety and Risk Manager)	Name and Surname: <u>Arty Zondi</u> Signature:  Date: <u>10.12.2021</u>
Revision Number	BRA: 61/12/2021

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 **1D-43471**
- (b) Occupational Health & Safety Act and its Regulation

6. LOCALITY PLAN

PLEASE SEE TENDER DOCUMENT

7. SCOPE OF WORKS

Description of work

This Project is about protecting the private properties that are threatened by the river. As the Council is constructing a Riverbank protection wall that will minimize the risk erosion from further happening in future. The Department shall also do a lot of Excavation on the site and clean the site after completion.

Description of site

This is a river Environment and the topography is very steep. There is a lot of overgrown shrubs which need clearance before the project begins. There is no closer access to the site, but the access will be in approx. of 350 m away from the site. The access must be before entering the site.

RISK ASSESSMENTS

1.	Site establishment
2.	Site clearing, Vegetation, grubbing and Reinstatement
3.	Material delivery to the site
4.	Construction/upgrading of stormwater drainage system
5.	Construction and installation of mainhole
6.	Working in public vicinity
7.	The use of construction mobile plants
8.	Use of hand-tools
9.	Existing services

10.	Traffic management
11.	Construction Activities of Gabions

1. RISK ESTIMATION AND EVALUATION

RISK CLASSIFICATION USING A RISK SCORE TECHNIQUE

Exposure (E) How frequently does the hazardous event occur	Risk classification
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 classification
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 classification
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 classification
Over 400-----5	Very high risk - discontinue operation at all costs
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

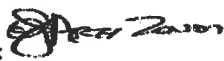
	ACTIVITY	HAZARDS
1.	Site establishment - Manual and mechanical clearing of the land - Off-loading and positioning of containers by mobile crane - Fencing - Installation of temporary water supply, electricity, ablution facilities	- Incompetent construction mobile plant operator - Manual Handling of equipment and materials. - Uneven surfaces - Driving on dangerous and undulating terrain. - Reckless driving. - Electrocution - Incorrect/ poor connection of temporary services
2.	Site clearing, Vegetation, grubbing and Reinstatement Manually and mechanical site clearing	- Overgrown vegetation - Incompetent driver/ operator - Unsafe construction mobile plant - Petrol and oil spillages - Unsafe hand tools - Manual handling
3.	Material delivery to the site - Loading and offloading of equipment manually. - Mechanical handling.	Employee being struck by the load.
4.	Construction/upgrading of stormwater drainage system - Excavation above 1m deep using and excavator and TLB - Preparation and laying of concrete pipes using a lifting equipment - Construction of above 1m deep manhole using cement, blocks,	- Excavating in an in fill and dumped material - Collapsing of trenches. - Unsafe access to trench - Unprotected trenches - People exposure to excavations - Unsafe lifting devices - Incompetent lifting machinery operator

	handtools and concrete manhole rings/cover • Connection of the stormwater pipes into the existing stormwater drainage system •	• Equipment failure • Overloading of equipment/ machinery • Working/ operating equipment too close to the excavation • Contact with and inhalation of cement dust • Manual handling of heavy manhole rings and covers • Incorrect connection of stormwater pipes
5.	Working in public vicinity	
		• High Traffic Area cars to be redirected • Narrow area space for public be to • Public exposure to construction activities • Conflict of activities • Community unrest • Distraction of services • Community forums
6.	The use of construction mobile plants	
		• Unsafe construction plants and equipment • Incompetent drivers/ operators • Uneven surface • Equipment/ machinery failure • Running out of control • Noise • Vibration • Oil leaks • Dust
7.	Use of hand-tools	
	• Conducting activities using hand-tools	• Unsafe hand-tools • Possible of pinch
8.	Existing services	
	• Existing roads, watermains, sewerlines, electricity	• Damage to existing services, • Destruction of services in the area,

		• Electrocution • Unforeseen existing hazards
9.	Traffic management	
	• The use of construction vehicle and mobile plant in the public and next to private roads/ streets	• Poor/ no traffic management plan in place • Lack of traffic management training • Unroadworthy plant and vehicle • Collision with other vehicles
	• Setting up of temporary road works signage	• Placing of incorrect signage at locations • Handling and placement of signage without wearing the correct PPE
	• Public vehicular and pedestrian traffic travelling on the public road during construction work	• Workers injured by passing traffic • Limited or no advanced warning area may result in accidents
10.	Construction Activities of Gabions	
	• Construction of Gabion	• Cutting of the mesh fabric • Handling wire • Poor ergonomics may result in muscular skeletal injuries



**Site Specific Health and Safety Specification in
terms of 2014 Construction Regulations 5.1(b)**

Document Title	Site Specific Health and Safety Specification
Client	EThekweni Municipality - : Coastal Stormwater and Catchment Management Services
Project Name	64 Bhubesi place, AA 388 Umlazi, Repair of Streambank Protection Works- Ward 84
Contract Number	1D-43471
Compiled by (Safety Officer)	Name and Surname: <u>Ntombifuthi Mazibuko</u> Signature:  Date: <u>10.12.2021</u>
Approved by (Safety and Risk Manager)	Name and Surname: <u>Arty Zondi</u> Signature:  Date: <u>10.12.2021</u>
Reference Number	SSHSS : 61/12/2021

PROJECT LOCALITY

Please see tender Document

Table of contents

1. Definitions
2. Project Description
3. Limitation of liability
4. Purpose of the Construction Health and Safety Specification
5. Project Health and Safety Cost
6. Scope of Work
7. Compensation for Occupational Injuries and Diseases Act, 130 of 1993
8. Application for construction work permit
9. Notification of Construction work
10. Management and Supervision of Construction
 - 10.1 Construction Manager
 - 10.2 Construction Safety Officer
 - 10.3 Construction Supervisor
11. Principal Contractor's Health and Safety Plan
12. Hazard Identification and Risk Assessment
13. Health and Safety File
14. Close-out and Consolidated Health and Safety File
15. Health and Safety Training
 - 15.1 Health and Safety Training
16. Incidents Management & First Aid
17. Health & Safety Audits
18. Fire Precautions on Construction Site
19. Electrical Installations on Construction Sites
20. Personal Protective Equipment (PPE) and Clothing
21. Occupational Health and Safety Signage
22. Duties of Principal Contractors and Contractors
23. Excavation Work
24. Public Health and Safety
25. Construction Employees Facilities
26. Storage and use of Flammable liquids
27. Hazardous Chemical Substances
28. Housekeeping and General Safe Guarding on Construction Site
29. Construction Medicals
30. Stacking and Storage on Construction Site
31. Induction and Toolbox Talk Programme
32. Contingency/Emergency Plan, Procedure and Contact Numbers
33. Traffic Management Plan
34. Covid 19

Annexure A. (Medical Certificate of Fitness) Annexure 3

1. DEFINITIONS

For the purpose of this Construction Health and Safety Specification, all definitions in the Occupational Health and Safety Act and Regulations, the abbreviations and the definitions given hereunder shall apply; where definitions may overlap, the most onerous requirement shall apply:

Acronym or Definition	Meaning
Agent	Refer to the Agent appointed by the Client to act on its behalf, and who is appointed in writing
CHSS	Refers to this document as the Construction Health and Safety Specification
Client	Refers to eThekweni Municipality
COIDA	Means Compensation for Occupational Injuries and Diseases Act 130 of 1993
Construction Site	Means the premises and grounds where construction work is being performed
Principal Contractor	Means an employer appointed by the Client to perform construction works
CR	Refers to the Construction Regulations of 2014
DSTI	Refer to a documented daily safe task instruction compiled and issued by a contractor and trained to all relevant employees
H&S	Refers to Health and Safety
Medical Certificate of Fitness	Means a valid medical certificate of fitness issued by an occupational medicine practitioner, such medical testing shall be relevant to the risks of the construction work on the construction site and shall conform to the Occupational Health and Safety Act and Regulations and to the requirement of this Health and Safety Specification
Method Statement	Refer to a document detailing the key activities to be performed in order to reduce as reasonably as practicable the hazards identified in the Risk Assessment
OHSA	Refer to the Occupational Health and Safety Act
Regulations	Refer to the Regulations stipulated in the OHSA
S	Refer to a section in the OHSA
SACPCMP	Means the South African Council for the Project and Construction Management Professions
Sub-Contractor	Means an employer appointed by the Principal Contractor

2. PROJECT DESCRIPTION

Description of work

This Project is about protecting the private properties that are threatened by the river. As the Council is constructing a Riverbank protection wall that will minimize the risk erosion from further happening in future. The Department shall also do a lot of Excavation on the site and clean the site after completion.

Description of site

This is a river Environment and the topography is very steep. There is a lot of overgrown shrubs which need clearance before the project begins. There is no closer access to the site, but the access will be in approx. of 350 m away from the site. The access must be before entering the site.

3.LIMITATIONS OF LIABILITY

The Principal Contractor shall enter into a Mandatory Agreement with the Client, as defined in Section 37(2) of the Occupational Health and Safety Act.

The Principal Contractor shall ensure that each contractor appointed by the Principal Contractor and each sub-contractor appointed by a contractor also into a Mandatory Agreement with the Principal Contractor, as defined in Section 37(2) of the Occupational Health and Safety Act. These agreements shall be included in the Principal Contractor's H&S File on site and be valid for the duration of the contractors' work on the construction site.

4. PURPOSE OF THE CONSTRUCTION H&S SPECIFICATION

This document defines the minimum management requirement that is to be implemented by the Principal Contractor/Contractor for the management of Health and Safety on any eThekweni Municipality project.

The aim of this document is to present the health and safety aspects that need to be controlled and managed on the project.

This Health and Safety specification identifies and encompasses the working behaviours and safe work practices that are expected of all employees, Vendors and Contractors, Sub-Contractors and Visitors, engaged on construction site.

Providing a guideline to comply with best Health & Safety practices and the Occupational Health and Safety Act 85/1993 as amended, including reference to applicable legislative requirement.

5. PROJECT HEALTH AND SAFETY COST

The Client must ensure that potential Principal Contractor submitting tenders have made adequate provision for the cost of health and safety measures.

The Principal Contractor shall allow in their cost provision for complying with the requirements of this CHSS; resources for the following H&S controls shall be in place.

	H&S cost item	Description
1.	Construction Safety Officer.	Construction safety officer is required to ensure that the health and safety plan is implemented on site.
2.	Medical certificate of fitness.	Medical examination of all employees and certification of fitness by an Occupational Medicine Practitioner
3.	Personal Protective Equipment.	PPE to be provided as per risk exposure, including but not limited to : respiratory, adapted hearing protection, adapted hand protection, adapted eye and head protection.
4.	Public protection and barricading.	To reduce risk exposure to the employees and members of the public.
5.	Training and competency.	Occupational Health and Safety Training in accordance with the skills matrix included in the approved H&S Plan.
6.	Dust mitigation.	To reduce dust exposure to the employees and the public
7.	Employee facilities.	Refer to the Facilities Regulations (drinking water, change facility, personal lockers, and wash facilities, eating facilities.
8.	First Aiders.	Standard first aid training.
9.	Other.	Items not indicated in the Specification

6. SCOPE OF WORK

Description of work

This Project is about protecting the private properties that are threatened by the river. As the Council is constructing a Riverbank protection wall that will minimize the risk erosion from further happening in future. The Department shall also do a lot of Excavation on the site and clean the site after completion.

Description of site

This is a river Environment and the topography is very steep. There is a lot of overgrown shrubs which need clearance before the project begins. There is no closer access to the site, but the access will be in aprox of 350 m away from the site. The access must be before entering the site.

7. COMPENSATION FOR OCCUPATIONAL INJURIES AND DISEASES ACT

The Principal Contractor, each contractor and each sub-contractor shall submit proof of Good Standing with COIDA Commissioner or a Mutual Association licensed in terms of Section 30 of COIDA, prior to starting any work on site.

A copy of the Letter of Good Standing with COIDA Commissioner must be included in the H&S Plan of each contractor working on the site and must remain updated for the duration of the construction work.

8. APPLICATION FOR CONSTRUCTION WORK PERMIT

The Principal Contractor shall assist the Client in compiling the evidence required by the Department of Labor for the issuing of the Construction Work Permit.

The Principal Contractor shall ensure that the H&S Plan presented for approvals includes:

- Evidence that the Principal Contractor made adequate provision for the cost of H&S measures
- Evidence that the Principal Contractor has the necessary competencies and resources to carry out the construction work safely.
- A copy of the Letter of appointment of the Construction Manager in terms of CR 8(1) + proof of his qualification, competence and registration where applicable.
- Proof of the registration of the Principal Contractor's safety officer with the SACPCMP.

The Principal Contractor shall display the work permit number at the main site entrance. This display must be conspicuous to the satisfaction of the Department of Labor. The permit must be noticeable.

The construction works can only commence once the construction work permit is issued by the Department of Labor.

9. NOTIFICATION OF CONSTRUCTION WORK

The Principal Contractor must at least 7 days before that work is to be carried out notify the provincial director in writing in a form similar to Annexure 2 if the intended construction work will—

Include excavation work;

Include working at a height where there is risk of falling;

Include the demolition of a structure; or

Include the use of explosives to perform construction work.

A contractor who intends to carry out construction work that involves construction of a single storey dwelling for a client who is going to reside in such dwelling upon completion, must at least 7 days before that work is to be carried out notify the provincial director in writing in a form similar to Annexure 2

10. MANAGEMENT AND SUPERVISION OF CONSTRUCTION WORK

10.1 Construction Manager

The Principal Contractor shall appoint a full time competent person as the construction manager with the duty of managing all construction on the site including the duty of ensuring occupational health and safety compliance.

The Construction Manager must demonstrate competency in relation to work being performed and the ability to manage construction work which may include making all statutory appointments in terms of health and safety.

10.2. Construction Safety Officer

The Principal Contractor shall appoint a competent Construction Safety Officer for the construction work. The Construction Safety Officer shall be full/part time on the construction site for this project.

The Safety Officer shall be registered with the South African Council for the Projects and Construction Management Professions. Proof of competence and registration of the appointed Construction Safety Officer must be included in the H&S Plan.

10.3. Construction Supervisor

A Construction Manager must in writing appoint construction supervisors responsible for construction activities and ensuring occupational health and safety compliance on the construction site.

A contractor must, upon having considered the size of the project, in writing appoint one or more competent employees for different sections thereof to assist the construction supervisor contemplated in subregulation (7), and every such employee has, to the extent clearly defined by the contractor in the letter of appointment, the same duties as the construction supervisor: Provided that the designation of any such employee does not relieve the construction supervisor of any personal accountability for failing in his or her supervisory duties in terms of this regulation.

11. PRINCIPAL CONTRACTOR'S HEALTH AND SAFETY PLAN

The Principal Contractor shall submit a suitable, sufficiently documented and coherent specific health and safety plan based on the Client documented Health and Safety Specification. The health and safety plan shall include but not limited to the following

- Introduction.
- Project Details.
- Full Description of the works.
- Objectives and Targets for the Project.
- Implementation of the Client Health and Safety Specification.
- Monitoring and review plan.
- Management of construction and supervision.
- Compensation of Occupational Injuries and Diseases Act 130 of 1993 (COIDA).
- Notification of construction work.
- Sub-Contractor and Supplier Management.
- Hazard Identification, Risk Assessment & Risk Control.
- Written Safe Working Procedures.
- Excavation method statements.
- Incident Management & First Aid.

- Emergency Evacuation Plan/Procedures.
- Fire Prevention & Protection.
- Public Safety.
- PPE Provision and Maintenance.
- Health & Safety Signage.
- Construction Vehicles and Mobile Plants.
- Hand & Electrical Tool Management.
- Construction Employees Facilities.
- Health & Safety Policies.
- Health and Safety Training & Competencies.
- Housekeeping.
- Hazardous Chemicals.
- Site Barricading.
- Traffic Accommodation.
- Induction.
- Medicals Certificates of Fitness.
- Site Security.
- Stacking and Storage.
- Heat stress.
- Transportation of Employees.
- Internal and external Audit.
- Inspection Registers.
- Toolbox Talks.
- COVID 19

12. HAZARD IDENTIFICATION AND RISK ASSESSMENT

The Principal Contractor shall before commencement of any construction and during such construction works have risk assessments performed by appointed competent person in writing which forms part of the health and safety plan to be applied.

The provisions of Regulation 9 of the Construction Regulations shall be followed in every detail.

13. HEALTH AND SAFETY FILE

The Client must discuss and negotiate with a Principal Contractor the content of the Health and Safety Plan and thereafter finally approve the Health and Safety plan for implementation. The recommended Health and Safety file shall include the following:

- Notification of Construction Work
- Client Health & Safety Specification
- SHE Policy
- Principal Contractor Health & Safety Plan
- Updated letter of good standing with Commissioner
- Section 37.2 Mandatory Agreement
- Contractor appointment letter in terms of CR 5.1(k)
- Organogram as per appointments

- Legal appointment letters and competencies (Construction Manager, Construction Supervisor, Construction Safety Officer, Risk assessor, Incident Investigator and Electrical installation installer) etc.
- Risk Assessments as per scope of work
- Written Safe Working Procedures as per scope of work
- Applicable Inspection Registers
- Incident/Accident Management
- Award letter from SCM
- Latest copy of OHS Act and other relevant regulations
- Environmental Management Plan Procedures (Dumpsite, Water provision, Ablution, Waste management, Concrete works, Refueling and spillage management, hazardous chemicals storage and disposal, Environmental awareness training, Protection of heritage, site demarcation etc)
- Health and Safety Induction programme
- Site Emergency Evacuation Plan
- Key Personnel contact numbers
- Site Safety Rules
- Medical Records – Medical Fitness Certificate
- Tool Box Talks Programme
- Material Safety Data Sheets
- First Aid box and competent first aider
- Traffic management plan
- COVI19

14. CLOSE-OUT CONSOLIDATED HEALTH AND SAFETY FILE

The Principal Contractor shall compile a consolidated H&S file and hand over to the Business Unit, OHS Unit will conduct a project close out using the appropriate checklist before the completion of the project.

15. INDUCTION AND HEALTH AND SAFETY AWARENESS

The Principal Contractor shall ensure that all employees have gone through the induction training before commencing duties on site.

The Principal Contractor must ensure that all visitors to the construction undergo health and safety induction pertaining hazards prevalent on the site and ensure that visitors have appropriate PPE. The Principal Contractor must at all times on his or her construction site keep records of health and safety induction training.

15.1 Health and Safety Training

The Principal Contractor shall ensure that employees are trained on health and safety measures this shall include but not limited to:

- Written Safe Working Procedures
- Risk Assessments
- Health and Safety Plan and other policies
- Emergency Management Plan
- Incident management procedures
- Environmental management procedures

- Induction
- Toolbox Talks
- MSDS
- Traffic management plan

16. INCIDENTS MANAGEMENT & FIRST AID

All incidents and accidents as per Section of the Act must be reported, recorded and investigated as per General Administration Regulation 8 & 9

Where a fatality or permanent disabling injury or incident occurs on the Construction site, the Client must ensure that the Principal Contractor provides the Provincial Director with a report contemplated in Section 24 of the Act and the report includes the measures that the Principal Contractor intends to implement to ensure a safe construction site.

17. HEALTH AND SAFETY AUDITS

The Client must ensure that periodic health and safety audits are conducted at intervals mutually agreed upon between the Principal Contractor and the Client at least every 30 days, the copy of the health and safety audit report must be provided to the Principal Contractor within seven days after the audit.

18. FIRE PRECAUTIONS ON CONSTRUCTION SITE

The Principal Contractor shall provide suitable fire extinguishers which shall be serviced regularly in accordance with the manufactures recommendations.

Safety signage shall be prominently displayed in all areas where fire extinguishers are located. The Principal Contractor shall arrange for training of the relevant personnel, in the use of fire extinguishers.

The provisions of Regulation 29 of the Construction Regulations as well as Regulation 9 of Environmental Regulation for Workplaces shall be followed in every detail.

19. ELECTRICAL INSTALLATIONS AND MACHINERY ON CONSTRUCTION SITE.

The Principal Contractor shall designate a competent electrician in writing who shall control all electrical installations.

All temporary electrical installations used by the contractor are inspected at least once a week by a competent person and the inspection findings are recorded in a register kept on the construction site.

All Electrical machinery is inspected by the authorized operator or user on daily basis using a relevant checklist prior to use and the inspection findings are recorded in a register kept on the construction site.

The provisions of Regulation 5, 6 & 9 of the Electrical Installation Regulations shall be followed in every detail.

20. PERSONAL PROTECTIVE EQUIPMENT AND CLOTHING.

The Principal Contractor shall ensure that every employee is issued with, and wears SANS-approved P.P.E. as per the conducted risk assessment.

Failure to use protective equipment as per the risk assessment shall require disciplinary intervention and this process shall be documented in the induction.

No employer shall in respect of anything which he is in terms of this Act required to provide or to do in the interest of health or safety of an employee make any deductions from any employee's remuneration or require or permit any employee to make any payment to him or to any other person.

The provisions of Regulation 2 of the General Safety Regulations shall be followed in every detail.

21. OCCUPATIONAL HEALTH AND SAFETY SIGNAGE

The Principal Contractor shall erect and maintain quality safety signage

The signage shall include but is not limited to:

- Access restrictions
- A sign indicating that all visitors must report to the site office and must be accompanied by the Principal Contractor when accessing the site
- The name and telephone number of the responsible person(s)
- Emergency telephone number(s)
- PPE to be worn at the particular site
- When falling objects may occur, relevant barricading and warning signs must be erected
- Excavations, heights structures, temporary structures and all risk areas must be indicated as per the specific methods defined in the H&S Plan.

22. DUTIES OF PRINCIPAL CONTRACTORS AND CONTRACTORS

Contractors and sub-contractors must be given a copy of the H&S specification and any additional specification issued by the Client and shall comply with these specifications integrally. All employers working on the site shall conform to the standard in the CHSS. All the duties of the Principal Contractor in this CHSS equally apply, in full, to contractors of such Principal Contractor and to sub-contractors of such contractors.

The Principal Contractor shall ensure that the comprehensive and updated list of all the contractors and sub-contractors on site includes:

- A reference to the agreements between the parties, including all contractors Section 37(2) agreements with the Principal Contractor
- The type of work being done
- The date of the approval of the H&S Plan
- The date of expiry of the COIDA certificate of good standing
- The date of the last monthly audit.

The provisions of Regulation 7 of the Construction Regulations shall be followed in every detail.

23. EXCAVATION WORK

- The Principal Contractor must ensure that all excavation work is carried out under the supervision of a competent person who has been appointed in writing for that purpose.
- The Principal Contractor shall take cognisance of the geotechnical study pertaining to the conditions of the construction site and must plan all excavation work in accordance with the recommendations of the professional engineer.
- The Principal Contractor must ensure that every excavation, including all bracing and shoring, is inspected daily, prior to the commencement of each shift and that no person enters the excavation or works in a risk zone until the excavation is assessed and declared safe.
- All excavations must be left open for the minimum of time required and those that are left open on the site must be protected by a barrier or a fence of at least one meter in height as close to the excavation as is practicable. The protective barrier or fence must adequately prevent persons from falling into the excavation and barrier taping is not sufficient for this purpose
- Excavation shoring and bracing, if required shall be designed by a designer appointed in writing who shall inspect and approve the installed shoring and bracing
- Where persons work, inspect or test excavations, warning signs must be in place next to an excavation

The provisions of Regulation 13 of the Construction Regulations shall be followed in every detail.

24. PUBLIC HEALTH AND SAFETY

The site shall at all times be secured to prevent the unauthorized access of persons to construction risk areas.

Appropriate health and safety signage shall be posted and access control to site must be exercised via a single access point.

All members entering the site must indicate in what capacity they are visiting the site.

The access point must be designed and constructed to allow for temporary parking, entry of construction vehicles, entry of personnel transport vehicles and entry of individual workers and other persons.

The principal Contractor shall ensure that each person visiting the site shall be inducted to the site and such abridged induction shall outline the hazards from on-site activities and the precautions to be observed to avoid or minimize those risks

Visitors must only enter when accompanied by a responsible person designated by the Principal Contractor.

25. CONSTRUCTION EMPLOYEES FACILITIES

The Principal Contractor shall provide at or within reasonable access of every construction site, the following clean, hygienic and maintained facilities:

- (a) Shower facilities after consultation with the employees or employees representatives, or at least one shower facility for every 15 persons;
- (b) at least one sanitary facility for each sex and for every 30 workers;
- (c) changing facilities for each sex; and
- (d) sheltered eating areas.

The provisions of Regulation 2, 3, 4, 6, 7, 9 of the Facilities Regulations shall be followed in every detail.

26. STORAGE AND USE OF FLAMMABLE LIQUIDS

No flammable substances must be stored on site unless these are stored in a flammable store or cabinet approved by the Municipal Chief Fire Officer, no other materials shall be stored in the flammable store or cabinet

Where required the H&S Plan shall include a method statement detailing the safe use, storage, decanting and spill controls for all flammable liquids used and stored on site.

The provisions of Regulation 25 of the Construction Regulations shall be followed in every detail.

27. HAZARDOUS CHEMICAL SUBSTANCE

With respect to hazardous chemical substances used, the contractor shall ensure that:

- All MSDS are included in the H&S File
- A HCS risk assessment is included in the H&S Plan
- The safe use, storage, emergency procedures and safe disposal of hazardous substances are addressed in a method statement(s) included in the H&S Plan.
- Proof of competency and signed letters of appointment of the person responsible for chemical handling is included in the H&S File.

Any hazardous chemical substance intended to be applied on site during the project (i.e. after approval of the H&S Plan) shall be subject to an issue-based risk assessment and method statement which must be presented to the Client Agent prior to the substance being introduced on site.

The provisions of Regulation 3, 5, 7, 8, 9, 9A, 10, 11, 14, 15 of the Hazardous Chemical Substances Regulations shall be followed in every detail.

28. HOUSEKEEPING AND GENERAL SAFE GUARDING ON CONSTRUCTION SITE

The Principal Contractor shall appoint a person responsible for general housekeeping and stacking and storage of materials and equipment on the entire site.

The provisions of Regulation 27 of the Construction Regulations shall be followed in every detail.

29. CONSTRUCTION MEDICALS

A Principal Contractor must ensure that all his or her employees have a valid medical certificate of fitness specific to the construction work to be performed and issued by an Occupational Health Practitioner in the form of Annexure 3.

30. STACKING AND STORAGE ON CONSTRUCTION SITE

A Principal Contractor must, in addition to compliance with the provisions for the stacking of articles in the General Safety Regulations, 2003, ensure that—

A competent person is appointed in writing with the duty of supervising all stacking and storage on a construction site;

Adequate storage areas are provided;

There are demarcated storage areas; and storage areas are kept neat and under control.

31. INDUCTION AND TOOLBOX PROGRAMME

No contractor may allow or permit any employee or person to enter any site, unless that employee or person has undergone health and safety induction training pertaining to the hazards prevalent on the site at the time of entry.

A contractor must ensure that all visitors to a construction site undergo health and safety induction pertaining to the hazards prevalent on the site and must ensure that such visitors have the necessary personal protective equipment.

A contractor must at all times keep on his or her construction site records of the health and safety induction training contemplated in subregulation (6) and such records must be made available on request to an inspector, the client, the client's agent or the principal contractor;.

The Principal Contractor must ensure that the toolbox talks are conducted on weekly basis and the training records kept on the safety file

32. CONTINGENCY/EMERGENCY PLAN, PROCEDURE AND CONTACT NUMBERS

Principal Contractor shall prepare an emergency procedure which will address any emergency situation that is likely to occur on a project site.

The Emergency Preparedness Plan deals with the emergency situation as fast and efficiently as possible, to minimise loss of life, the protection of property and the maintenance of services necessary for the wellbeing of employees. The plan shall include valid local emergency contact numbers and must be easily accessible.

33. TRAFFIC MANAGEMENT PLAN.

PRIMARY RESPONSIBILITIES

PRINCIPAL CONTRACTOR

The following are the Principal Contractor's primary responsibilities for traffic accommodation

- Develop a traffic accommodation strategy and submit it for evaluation prior to commencement of work.
- This will be sent to the client for approval

- Included to the traffic management strategy must be drawings of how traffic will be managed
- Implement traffic accommodation measures in accordance with the traffic accommodation strategy.
- Ensure that all sub-contractors comply with the traffic accommodation strategy.
- Monitor the work zone to ensure that the traffic accommodation strategy is effective for both day and night time conditions during period of construction.
- Maintain all traffic control devices.
- Modify the traffic accommodation strategy if necessary. Take appropriate and timely action to correct any deficiencies by the contractor, in case of imminent danger, corrective action must immediate.
- All Traffic accommodation contractors shall have at least one First aider (Level 1) for each section of work.
- If the traffic Safety Officer have got the necessary first aid competency it will be accepted.
- It is also a recommendation and good practice that a Fire fighter be appointed for the site.
- Report all third party vehicle accidents immediately to the Client. Provide a copy of the completed accident report within 48 hours of the occurrence.
- On construction projects, submit completed daily reports of the traffic accommodation details (location, date, time, signs, barricades) on weekly basis.
- On construction projects attend meetings to address any concerns regarding the performance of the traffic accommodation strategy.
- Provide a knowledgeable individual at the work zone to maintain the traffic control devices and address any traffic accommodation issues which arises, the contractor must identify the individual at the pre-construction meeting.
- All traffic controllers must have the necessary competency to be able to control traffic.

34 COVID 19

- Contractor shall comply with COVID 19 Risk Management plan issued by health and safety Unit

N.B: For more information please do not hesitate to contact Futhi Mazibuko on 083 9405 051 or 031 322 2842 or email futhi.mazibuko@durban.gov.za

ANNEXURE 3

OCCUPATIONAL HEALTH AND SAFETY ACT, 85 of 1993

Construction Regulations. 2014

Medical Certificate of Fitness

Name of Employee ID Number Co Number

*Possible Exposure e.g. noise, heat, fall, risk, confined space, etc.	* Job specific Requirement e.g. Operating Mobile Crane, Digging Trenches, Erecting formwork & Support work, etc.										* Protective Equipment e.g. Dust respirator(Light Duty) Welding Gloves, etc.
*Occupation e.g. General worker , Welder, Bricklayer, Steel fixer, Mobile Crane, Operator, etc.											

* The employer to complete the information in the spaces marked with an before sending the employee for a medical examination

Declaration by the Medical Examiner:

I certify that I have, by examination and testing, using the above criteria specified by the employer, satisfied myself that the abovementioned employee is fit to perform the duties by the employer in the matrix above.

Occupational Medicine Practitioner/ Occupational Health Nursing Practitioner: (Please Print Name).....

Signature Practice Number Date

Address

ETHEKWINI MUNICIPALITY
Occupational Health & Safety Unit



COVID 19 Health and Safety Specification

Document Title	Site Specific Health and Safety Specification
Client	EThekweni Municipality - : Coastal Stormwater and Catchment Management Services
Project Name	64 Bhubesi place, AA 388 Umlazi, Repair of Streambank Protection Works- Ward 84
Contract Number	1D-43471
Revision	01
Date	10.12.2021
Internal Reference no.	COVID 67/12.2021
Compiled by (Safety officer)	Name and surname: <u>Ntombifuthi Mazibuko</u> <i>Ntombifuthi Mazibuko</i> Signature: _____ Date: <u>10.12.2021</u>
Reviewed by (Manager: Safety& Risk)	Name and surname: <u>Arty Zondi</u> <i>Arty Zondi</i> Signature: _____ Date: <u>10.12.2021</u>



ETHEKWINI MUNICIPALITY OCCUPATIONAL HEALTH AND SAFETY UNIT

COVID 19 HEALTH AND SAFETY SPECIFICATION

Background:

Corona viruses are a large family of viruses that are found both in humans and animals. Some of these viruses are known to cause illnesses ranging from common cold to severe respiratory diseases. Corona virus (COVID-19) was identified in December 2019 in China. COVID-19 infections have spread to other countries in the world. Exposure to Covid-19 may cause flue like symptoms such as coughing, sneezing, headaches, fever, sore throat and at times affect the lungs and airways of employees. Symptoms can be mild, moderate, severe or fatal.

Coronavirus Disease 2019 (COVID-19) is a respiratory disease caused by the SARS-CoV-2 virus. To reduce the impact of COVID-19 outbreak conditions on businesses, workers, customers, and the public, it is important for all employers to plan now for COVID-19. For employers who have already planned for influenza outbreaks involving many staff members, planning for COVID-19 may involve updating plans to address the specific sources of exposure, routes of transmission, and other unique characteristics of SARS-CoV-2 (i.e. compared to influenza virus outbreaks).

Introduction

The legislation governing workplaces in relation to COVID-19 is the Occupational Health and Safety Act, Act 85 of 1993, as amended, read with the Hazardous Biological Agents Regulations. Section 8 (1) of the Occupational Health and Safety (OHS) Act, Act 85 of 1993, as amended, requires the employer to provide and maintain as far as is reasonably practicable a working environment that is safe and without risks to the health of employees. Specifically, section 8(2)(b) requires steps such as may be reasonably practicable to eliminate or mitigate any hazard or potential hazard before resorting to Personal Protective Equipment (PPE). However, in the case of COVID-19, a combination of controls is required, although the main principle is to follow the hierarchy of controls.

While engineering and administrative controls are considered more effective in minimizing exposure to SARS-cov-2, PPE may also be needed to prevent certain exposures. While correctly using PPE can help prevent some exposures, it should not take the place of other prevention strategies

This is a risk assessment for dealing with the current COVID-19 situation in the construction site. It may not likely to cover all scenarios therefore Construction Management should develop Standard Operating Procedures as there may be unique circumstances and make a necessary call in the interest of the health and safety of employees

This is a risk assessment for dealing with the current COVID-19 situation in the construction site. It may not likely to cover all scenarios therefore management should develop SOP's as there may be unique circumstances and make a necessary call in the interest of the health and safety of Contractor employees

Definitions

"BCEA" means the Basic Conditions of Employment Act, 1997 (Act No.75 of 1997)

"COVID-19" means Coronavirus Disease 2019

"Disaster Management Act" means the Disaster Management Act, 2002 (Act No.57 of 2002)

"OHSA" means the Occupational Health and Safety Act, 1993 (Act No.85 of 1993)

"PPE" means personal protective equipment

"virus" means SARS-Cov-2 virus

"Worker" means any person who works in an employer's workplace including an employee of the employer or contractor, a self-employed person or volunteer

"workplace" means any premises or place where a person performs work

"NICD" means National Institute for Communicable Diseases

"OMP" means Occupational Medical Practitioner

COVID 19 Risk Assessment:

- The Contractor must ensure that COVID 19 Risk Assessment (COVID 19 Health and Safety Plan) is conducted and submitted to the Client prior to the commencement of the construction work, it must be in line with the Client COVID 19 Health and Safety Specification.

- The Contractor must appoint COVID 19 Compliance Manager to ensure that all necessary COVID 19 safety precautions are implemented to prevent the spread.

Training and awareness:

- The Contractor must ensure that all employees are inducted on COVID19 contractor risk assessment to prevent the spread.
- The Contractor must ensure that the employees are trained on COVID 19 to prevent the spread of the virus, training records must be kept in the Safety File.
- COVID-19 Direction on Health and Safety in the Workplace Government Gazette dated 29 April 2020, must be used as guideline and be customized to specific construction site.
- The Contractor must provide workers with information that raises awareness in any form or manner, including where reasonably practicable leaflets and notices placed in conspicuous places in the workplace informing workers of the dangers of the virus, the manner of its transmission, the measures to prevent transmission such as personal hygiene, social distancing, use of cloth masks, cough etiquette and where to go for screening or testing if presenting with symptoms .

Hand Hygiene:

- The Contractor must provide adequate facilities for the washing of hands with soap and clean water on each construction site.
- The Contractor must provide 70% alcohol-based hand sanitizers at strategic points of the construction site.
- The Contractor must paper towels to dry hands after hand washing.

Cleaning and Disinfecting surfaces:

- The Contractor must take measures to ensure that all work surfaces and equipment are disinfected before work begins, regular during the working period and upon completion the work.
- The Contractor must ensure frequently cleaning and disinfecting objects and surfaces that are touched regularly particularly in areas of high use such as shared tools, taps, ablution facilities, hand rails light switches, eating and changeroom areas, shared construction vehicles, etc. using appropriate disinfecting solutions such clean water, soap and bleach

Social Distancing:

- The Contractor must arrange the construction site to ensure minimal contact between workers and as far as practicable that there is a minimum of 1,5meter distance between workers while they are working. employees are aware to maintain social distance when working.

- The Contractor must ensure that social distancing measures are implemented through supervision of both the construction site and in the common areas outside the workplace, through queue control or within the workplace, these measures may include dividing the workers into groups or staggering break times to avoid the concentration of workers in common areas.
- The Contractor must ensure that where the minimum distance is impossible employees must always be instructed to wear cloth mask/FFP1/2 mask or reducing the number of workers present in the construction site at any time to achieve the required social distancing.
- The Contractor must ensure that employees working in offices are provided with physical barriers placed between work their workstations

Personal Protective Equipment (PPE)

- The Contractor must ensure that every worker is provided with two cloth masks to be worn when in workplace or public which comply with the requirement set out in the guideline issued by Department of Trade, Industry and Competition.
- The main benefit of everyone wearing a cloth mask is to reduce the amount of virus droplets being coughed up by those with infection and transmitted to others and to surface that others may touch.
- Every Contractor must ensure that workers are informed, instructed, trained and informed as to the correct use of cloth mask.
- The Contractor must ensure to issue face shield/visors where applicable as double protection

Point of entry screening

- The Contractor must identify the screening area for each construction site.
- The Contractor must ensure that the daily point of entry screening is conducted when entering construction site by a person nominated by the Contractor.
- The Contractor must ensure that all employees and visitors are screened and only those with all clear will be given clearance to carry on with construction work.
- The Contractor must ensure that during the screening a 1.5 m distance is maintained and FFP1/2 mask to be worn by a nominated person.
- The Contractor must ensure that the screening person is trained.
- The Contractor must ensure that a bottle of sanitiser is available at the screening area.
- The Contractor must ensure that the thermal device are provided during the screening process.
- The Contractor must ensure that all employees complete a COVID 19 Questionnaire which will be used to screen potential risk personnel entering the construction site.

Symptomatic employees

- The Contractor must ensure that any person who ticks YES to one or more symptoms will be sent home and be advised to seek testing by a healthcare provider.

- The Contractor must ensure that employees who are sick with continuous cough, sore throat, difficulty breathing, or a high temperature in the workplace will be encouraged to stay home.
- The Contractor must ensure that the positive tested COVID 19 case, the employee is on paid sick leave in terms of section 22 of BCEA or if the employee's sick leave is exhausted, the Contractor shall apply for an illness benefit.
- The Contractor must ensure that employees confirmed to have COVID 19 will be managed in line with National Department of Health COVID 19 guidelines.
- The Contractor must isolate the worker with confirmed COVID case and issued him/her with FFP2 or surgical mask, arrange for the worker to be transported for further medical examination or testing, in a manner that does not place other workers or members of the public at risk
- The Contractor must ensure that the driver who is transporting the Person Under Investigation is provided with surgical mask or FFP2 mask.
- The Contractor must assess the risk of transmission, disinfect the work area and refer those workers who may be at risk for screening to prevent possible transmission.
- The Contractor must advise the Communicable Disease Centre (CDC) so that other contacts be identified and be investigated
- The Contractor must ensure that tested positive for COVID 19 is not discriminated in terms of Employment Equity Act no. 55 of 1998.
- The Contractor must ensure that if there is evidence that the worker contracted COVID 19 as a result of occupational exposure, lodge a claim for compensation in terms of the Compensation for Occupational Injuries and Diseases Act no. 130 of 1993.
- The Contractor must ensure that if a worker has been diagnosed with COVID 19 and isolated in accordance with the National Department of Health Guidelines, a Contractor may only allow a worker to return to work on the following conditions, the worker has undergone a medical evaluation confirming that the worker has been tested negative for COVID 19.

Emergency Numbers

- Corona virus (COVID-19) 24-Hour Hotline number: 0800 029 999
- Corona virus (COVID-19) WhatsApp Number: 0600 12 3456
- COVID-19 National Crisis Helpline - 0861 322 322
- NICD (National Institute of Communicable Diseases) 24-Hour toll-free hotline number: 0800 029 999 or 0800 111 132
- SAPS gender-based violence service complaints (SAPS) - 0800 333 177
- GBV (Gender Based Violence) Command Centre -0800 428 428/ *120*7867# (free from any cell phone)/ SMS Line: 32312
- Women Abuse Helpline - 0800 150 150
- People Opposing Women Abuse (POWA) - Tel: 011 642 4345/ Afterhours cellphone: 0837651235
- Child Line - 0800 055 555
- Lifeline South Africa - 0800 012 322 (free on mobile networks including landlines)
- FAMSA - Advice on family relationships - 011 975 7107
- Human trafficking - Report cases of human trafficking - hotline operated by the Salvation Army and Be Heard - 08007 37283 (0 8000-rescue)

- National Human Trafficking Helpline - 0800 222 777
- Persons with Disabilities - SMS 'help' to 31531
- National AIDS Helpline - 0800 012 322
- Suicide Helpline - 0800 567 567
- Stop Gender Violence - Anonymous, confidential and accessible telephonic information, counselling and referrals, in all 11 official languages - 0800 150 15
- Substance Abuse Helpline - 0800 12 13 14

Recommended Best Practice

- The Contractor must ensure that vulnerable and 60 years old workers are identified and received a special measure for their protection.
- The Contractor must ensure that for communication strategy Microsoft Team, ZOOM or Skype or cell phones are used to prevent the spread of COVID 19 virus.
- The Contractor must ensure to keep the workplace well ventilated by natural or mechanical means to reduce the SARS – CoV – 2 viral loads.

References

- COVID-19 Disaster Management Act
- Occupational Health & Safety Act 85 of 1993
- The Department of Employment and Labour: Workplace Preparedness: COVID-19 (SARS-CoV-19 virus)
- COVID-19 Occupational Health and Safety Measures in Workplaces COVID-19 (C19 OHS), 2020
- Hazardous Biological Agents Regulations
- National Institute for Occupational Health (NIOH)

N.B. Please be aware that we are waiting for COVID 19 Construction Health and Safety Guideline issued by Department of Labour, which that they might be changes on this SPECIFICATION.

COMPANY LOGO

Covid-19 access into construction site, point of entry screening questionnaire

Company / Construction Site: _____

Name and Surname: _____ Co No: _____

Line Manager Name: _____

Question:	Yes	No
1. Have you had flu or symptoms of flu in the last few weeks?		
2. Do you have a persistent cough that has started in the last few days?		
3. Do you have symptoms of fever? (red, tearing or burning eyes, sweats, clammy hands)?		
4. Do you have any signs of a respiratory infection, shortness of breath, difficulty breathing? (Self-test: Hold in your breath for 10 seconds)		
5. In the last 14 to 21 days, have you travelled outside the borders of South Africa?		
6. In the last 14 to 21 days, have had contact with anybody that has travelled outside the Provincial or South African borders?		
7. Have you been near or in contact with anyone who has symptoms or tested positive for COVID-19?		
If you have answered yes to any of the above questions, please inform your supervisor immediately. Brief description of events (When, where and who else were you with: _____ _____ _____		
Personal Commitment		
✓ I further undertake to immediately report any change in my medical condition to my supervisor/manager!		
✓ I will always maintain excellent personal and company hygiene standards!		
✓ I will maintain and keep the minimum social distance of 1m between myself and other employees!		
✓ I will utilize PPE and sanitizers provided to me to prevent the spread of the virus!		
✓ I will ensure all equipment / materials handed over to another person has been cleaned and sanitized!		
✓ I will not abuse, misuse, share or lose the PPE and related materials / equipment issued to me!		
Employee Signature		
Date		

Temperature: _____ °C. (if temperature is at 38°C or higher refer to Process Flow Annexure 1 document then deny entry, isolate and start reporting process)

Entry Cleared Yes ☐ No ☐

Construction Manager/Supervisor: _____ Signature: _____ Date: _____

Comments: _____

