

DEVELOPMENT BANK OF SOUTHERN AFRICA



COVID 19 BASELINE RISK ASSESSMENT

DBSA SCHOOLS INFRASTRUCTURE UPGRADES, REPAIRS AND RENOVATIONS

WORKS FOR: KGAUHELO PRIMARY SCHOOL

Scope Defined in Tender 42.2.1 and Project BOQ

Report Prepared by SA SHEQ consultants

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Prepared For: DBSA

DEVELOPMENT BANK OF SOUTHERN AFRICA

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SOUTHERN AFRICA

	ISSUE BASE RISK ASSESSMENT
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DOCUMENT NAME	COVID-19 (CORONAVIRUS) – DBSA SCHOOLS INFRASTRUCTURE UPGRADES, REPAIRS AND RENOVATIONS
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INDEX SIGNIFICANT PRIORITY					FREQUENCY / PROBABILITY					
Risk Rating	Tolerability	Tolerability Definition		Preventive action request	Rare - The unwanted event has never been known to occur in the business; or it is highly unlikely that it will occur within 20 years	Unlikely - The unwanted event has happened in the business at some time; or could happen within 20 years	Possible - The unwanted event has happened in the business at some time; or could happen within 10 years	Likely - The unwanted event has occurred infrequently; occurs in order of less than once per year & is likely to reoccur within 5 years	Almost certain - The unwanted event has occurred frequently; occurs in order of one or more times per year & is likely to reoccur within 1 year	
Extreme (21-25)	INTOLERABLE - Significant & urgent actions required	Very high risk - immediate preventive action required to reduce risk or consider discontinue		EXTREME						
HIGH (13 -20)	ALARP - Reduce risk to As Low as Reasonably Practicable	High risk – implement preventive action where practical and monitor action		HIGH						
MODERATE (6-12)		Substantial risk - implement preventive action where practical and monitor action		MODERATE						
LOW (1-5)	TOLERABLE	Acceptable risk - Monitor and manage risk		LOW						
SEVERITY										
(S/H) Harm to People (Safety / Health)	(EI) Environmental Impact	(BI/MD) Business Interruption / Material Damage & Other Consequential Losses	(L&R) Legal & Regulatory	(R/S/C) Impact on Reputation / Social / Community		1	2	3	4	5
Multiple fatalities / Impact on health ultimately fatal	Extreme environmental harm - L3 incident irreversible	Substantial or total loss of operation / > R...	Very considerable penalties & prosecutions. Multiple Law Suits & jail terms	International impact - international public attention	5	Moderate (11)	High (16)	High (20)	Extreme (23)	Extreme (25)
Single fatality or loss of quality of life / Irreversible impact on health	Major environmental harm - L2 incident remediable post LOM	Partial loss of operation R... to R...	Major breach of the law; considerable prosecution and penalties	National impact national public concern	4	Moderate (7)	Moderate (12)	High (17)	Extreme (21)	Extreme (24)
Lost time injury / Reversible impact on health	Serious environmental harm - L2 incident remediable within LOM	Partial shutdown / R... to R...	Serious breach of the law; investigation report to authority, prosecution and or moderate penalty possible	Considerable impact - regional public concern	3	Low (4)	Moderate (8)	High (13)	High (18)	Extreme (22)
Medical treatment case / Exposure to major health risk	Material environmental harm - L2 incident remediable short term	Brief description to operation / R... to R...	Minor legal issue; noncompliance and breaches of the law	Limited impact - local public concern	2	Low (2)	Low (5)	Moderate (9)	High (14)	High (19)
First aid case / Exposure to minor health risk	Minimal environmental harm - L1 incident	No disruption to operation R... to R...	Low level legal issue	Slight impact - public awareness may exist but no public concern	1	Low (1)	Low (3)	Moderate (6)	Moderate (10)	High (15)

HAZARD = the potential for something to cause harm (e.g. Bar Heater); **RISK** = the likelihood that harm from a hazard will occur (e.g. Fire)

CONSEQUENCE = Something that follows as a result (e.g. Injury, burns)

Activity, Action description	Hazards	Risk (What can go wrong)	Consequences / Impacts (e.g. personal injuries or pollution)	Consequenc	Likelihood	Pure Risk rating	Suggested controls (To eliminate or minimize risk)	Consequenc	Likelihood	Residual Risk rating	Additional Controls (To eliminate or minimize risk)
Travelling to-and-from Work	Travelling using the compant transport	Person to person infection	Health infection (Corona Virus infection)	3	2	8	Educate all employees on the prevention of COVID-19. Issue hand sanitizer and face masks to employees before entering transporting vehicles. Regular disinfecting the inside of transportation vehicles before and after use. Limit the number of employees being transported in a closed vehicle. Employees to have at least 2 Meter space between each other. Employees with symptoms as described should not be transported to work and should stay at home.	3	1	4	Follow the Transportation Regulation as set out by the Minister of Public Health.
	Travelling using public transport	Contact with possible COVID-19 infected employee(s)	Health infection (Corona Virus infection). Fatality	4	4	21	Minimize the use of public transport – If using public transport, abide to the Provincial Regulations regarding COVID-19 Public Transport. Have all employees trained on the correct hygiene procedures. Have all employees regularly washing their hands . Supervisors and fellow employees to monitor each other for flu-like symptoms e.g. coughing. Employee(s) with symptoms should consult their Doctor as soon as possible.	4	3	17	Follow the Provincial Government's Public Transportation Regulation.
	Travelling across Provincial	Contact with possible COVID-19	Health infection (Corona Virus infection)	3	3	13	Avoid non-essential travel	3	2	8	

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	Boarders for leave/ leisure	infected employee(s)					If travelled to/ from affected Provinces with high rates of infection inform your Site Manager immediately.				
Vulnerable employees working on site	Employee age over 50 and underlining medical conditions e.g. Chronic lung disease or moderate to severe asthma or TB. Serious heart conditions. Employees who are immune-compromised e.g. cancer, smoking, poorly controlled HIV or AIDS, and prolonged use of corticosteroids. People with diabetes, chronic kidney disease undergoing dialysis liver disease etc.	High-risk for severe illness from COVID-19	Health infection (Corona Virus infection)	3	3	13	Employee(s) in this group should consult their Doctor first before returning to work. Stay and work from home if possible – <u>If not possible:</u> Supervisors should plan their task to limit the exposure of “congestive work environment/ area”. Employees in this category with symptoms should not be allowed to come to work. Appropriate PPE to be worn. Number of employees should be limited in working area. Hand sanitation points to be placed at strategic places at office and on site. Social distance of at least 2 Meters between workers. Promote hand washing with water and soap. Avoid touching your eyes, nose, or mouth with unwashed hands.	3	2	8	COVID-19 Guidance document on vulnerable groups.

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Access Control on Site	Security Gate	Contact with possible COVID-19 infected employee(s)	Health infection (Corona Virus infection)	3	3	13	Employee/ security available at each gate with appropriate PPE. Every entrance to site to have a thermometer. Every entrance to have a sanitation bottle to sanitize every person entering the sites hands. Avoid crowding at the security gate. Limit the crowd in a confined space or office. Keep at least 2 Meter space between other employees . Apply hygiene practices as being trained in. Every person shall complete the sign in register that will enable the contractor to track the person in case of a possible positive case. Non-essential visitors will not be allowed to enter the site. All persons entering the site to have a mask or a face shield on when entering, if not no access will be given to the person.	3	2	8	Information- and Warning Signages and Posters to be placed at the Site Access gate.
	Temperature Testing	Transfer of the virus from the infected person to the thermometers	Health infection (Corona Virus infection)	3	3	13	Testing officers to wear appropriate PPE. Testing office to use disinfectant wipes to clean the thermometers and any other materials used eg pen in between every test.	3	2	8	
		Transfer of the virus from the infected person	Health infection (Corona Virus infection)	3	3	13	Testing officers to wear appropriate PPE.	3	2	8	

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		to Testing Officer									
Employees working on Site	Person to person and surface to person infection	Person to person infection	Health infection (Corona Virus infection)	3	3	13	Supervisors should plan their task to limit the exposure of “congestive work environment/ area”. Employees with symptoms should not be allowed to come to work. Appropriate PPE to be worn by all employees at all times. Number of employees should be limited in working area. Hand sanitation points to be placed at strategic places at site office, access points, site store, toilets, eating area, inside mobile plant, and on site. Social distance of at least 2 Meters between workers. Employee(s) with symptoms should consult their Doctor as soon as possible. Promote hand washing with water, paper towels and soap. Promote hand sanitizers Periodic disinfection of the surfaces Avoid touching your eyes, nose, or mouth with unwashed hands	3	2	8	COVID-19 Policy and Procedure. Regular Training on Personal Hygiene. Information-Posters and Signage to be place on- and around Site.
	Machine to person/ operator infection	Transfer of COVID-19 from surfaces to person	Health infection (Corona Virus infection)	3	3	13	Machine Operators to keep their machines clean and disinfected. Promote hand washing with water and soap and the use of hand sanitizers.	3	2	8	Personal Hygiene Training

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							Operators should not allow any persons inside their machines if they have any flu-like symptoms.				
	Tool/ Equipment to person infection	Transfer of COVID-19 from surfaces to person	Health infection (Corona Virus infection)	3	3	13	Appropriate PPE to be worn. Tools and equipment should not be shared as far as possible. Cleaning of tools and equipment before handing it to other workers or before using it. Storeman to have appropriate PPE on and clean tools and equipment before and after handing it out or receiving it.	3	2	8	
	Ablution facilities infection	Transfer of COVID-19 from surfaces to person	Health infection (Corona Virus infection)	3	4	18	Alcohol disinfectant to be available. All ablution facilities to have a washing station or a sanitation station. Sufficient paper towels to be available. Ablution facilities to have a biochemical hazardous bin, with a medical waste bag that can be sealed. Paper towels to be discarded into the medical waste bin provided at the ablution facilities. Ablution facilities to be cleaned on a more regular basis to ensure a clean surface at all times. Chemical toilets ratio is reduced to 1-10 employees and flush toilets ratio is reduced 1-15 employees. Cleaning focus on the most touch areas before and after use (toilet handles, door handles, taps, basins surfaces, toilet seats etc).	3	3	13	Training on Personal Hygiene and information Poster to be given and posted on/ at ablution facilities.

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Reception Areas (Security, Stores, Tuckshops, Site Offices)	Person to person and surface to person infection	Transfer of COVID-19 from person to person and from surfaces to person	Health infection (Corona Virus infection)	3	3	13	<p>Ensure the area is well ventilated.</p> <p>Periodic disinfection of the surfaces e.g. door handles, desks, chairs, stationary. Do not share stationary as far as possible.</p> <p>Promote hand washing with water and soap and dried with paper towels and promote the use of hand sanitizers.</p> <p>All offices must have a biochemical hazardous bin with a medical waste bag that can be sealed.</p> <p>If disposable gloves are being used, they must be discarded in the medical waste bin.</p> <p>Only employees that is working in the office will be allowed in the offices.</p> <p>All visitors must arrange with office personnel if they have an appointment with one of the office employees to move outside and have the appointment outside or in a well-ventilated area and if possible, keep social distancing distance (2 Meters).</p> <p>Cleaners to focus on cleaning the following areas: desks, printers, door handles, kettles, microwaves & office equipment (cabinets, staplers, punchers) etc.</p>	3	2	8	
Meetings and group induction	Person to person and surface to person infection	Transfer of COVID-19 from person to person and	Health infection (Corona Virus infection)	3	3	13	<p>Ensure continuous ventilation in the induction room, preferable doing induction and other training outside.</p>	3	2	8	Suspend all Mass Meetings.

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		from surfaces to person					Limit meetings to max 10 x employees with 2 Meters apart in an office.				
Waste management	Surface to person infection	Transfer of COVID-19 from surfaces to person	Health infection (Corona Virus infection)	3	4	18	PPE and cleaning material that will be discarded will be seen as medical (biological hazardous) waste. It's to be separated from normal waste. Medical waste bins are marked and have a waste bag that can seal.	3	3	13	Training on the separation of waste to be given.
Using/ Wearing of PPE	Not wearing the prescribed PPE	Exposing and transferring of COVID-19 from person to person	Health infection (Corona Virus infection). Fatality.	4	3	17	All employees to have 3 x washable cloth masks or disposable mask. Cloth masks will be checked every morning at the entrance of the gate. New disposable masks to be issued before (and during) shift. Clean overalls to be worn at each shift. "Activity based gloves" to be worn during working hours only First Aiders and/ or Screening personnel to wear surgical gloves when needed. Goggles or glasses to be worn. Disposable masks and gloves to be disposed of in a biochemical hazardous waste bag.	4	2	12	Training on the safe use, limitations and disposal of PPE to be given.
Work area Inspection	Person to person and surface to person infection	Transfer of COVID-19 from person to person and from surfaces to person	Health infection (Corona Virus infection)	3	3	13	Correct PPE to be worn when work area is being inspected. Identified employee(s) with the symptoms to immediately call the Public Health Services (0800 02 9999), and remove him from the work area immediately. Identified sick employee(s) shall be referred to their Clinic/ Doctor.	3	2	8	

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							Employee(s) with POSITIVE COVID-19 will not be allowed to return to work till being cleared by a Doctor.				
Emergency Preparedness and Procedure for POSSIBLE affected employee	COVID-19 Infection - Mild to severe respiratory illness with cough, sore throat, shortness of breath or fever	Hospitalisation	Health infection (Corona Virus infection). Fatality.	4	3	17	Identified employee(s) with the symptoms to immediately be separated from other workers. Employee(s) with symptoms should consult their Doctor immediately. Self-isolation as quickly as possible and stay home. If already at home, call the Site Manager and inform him immediately. Call the Public Health Services (0800 02 9999).	3	2	12	Contact detail of Site Manager and Public Health Services to be displayed on site.