

## Risk Assessment

*It is the responsibility of the site in-charge / manager to ensure that all stated control measures are in place, communicated to all concerned employees and adhered to. In case any clarification required please contact Head office:*

<b>Project</b>	Any location	<b>Risk Assessment Number</b>	RA-001
<b>Area/ Location</b>	Dubai	<b>In-charge / Manager</b>	Site supervisor
<b>Task</b>	Corona Virus Disinfection		
<b>Who is affected</b>	<b>Cleaners</b> who are doing the task, <b>Public</b> who may access to task area, equipment or materials and <b>Environment</b> due to the use of chemical that may be hazardous to environment.		
<b>Applicable HSE Laws</b>	Federal Law no.8, Federal Law no.24, Local Order No.61, Ministerial Order 32 and DM Technical Guidelines		
<b>Required PPEs</b>	Uniform, Disposable Long Sleeved Gown, Safety Shoes, Gautier/Shoe Sock, Polyvinyl Hand Gloves, N95 Mask, Goggles / Face Shield		

Hazard(s) / Aspects	Consequences	Legal Req.	Risk Rating			Risk Control Measures	Residual Risk			Additional Risk Control Measures	Responsibility
			L	S	R		L	S	R		
<b>Exposure to Corona</b>	Fatality, fever, shortage of breath, dry cough, diarrhoea,	<b>Yes</b>	5	5	<b>25</b>	<ul style="list-style-type: none"> <li>Ensure that the area is sealed off before carrying out cleaning and disinfection of the contaminated environmental surfaces.</li> <li>Ensure that the DM recommended PPEs is used during disinfection</li> <li>Ensure that disinfection must be conducted as the DM recommended technical guidelines (Ref. DM-PH&amp;SD-GU88-CDBE4)</li> <li>Ensure that person should not have any open wound /injury</li> <li>Ensure that staff involved in the cleaning and disinfection activities is trained</li> <li>Never touch your nose, mouth &amp; eyes during &amp; after the disinfection and cleaning process</li> <li>Gloves must be removed if damaged and use new pair</li> <li>After &amp; before always maintain the good personnel hygiene</li> <li>Avoid direct contact with contaminated tool and equipment</li> <li>Never touch the contaminated area with bare hands</li> <li>If you have any of COVID 19 symptoms, immediately visit</li> </ul>	<b>3</b>	<b>5</b>	<b>15</b>	<ul style="list-style-type: none"> <li>TBT must be conducted prior to start of the task by supervisor</li> <li>Close supervision / Monitoring must be done</li> </ul>	Supervisor

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			L	S	R		L	S	R		
					12	the doctor			4		
<b>Exposure to Disinfectant</b>	Suffocation, Irritation, eye injuries, dizziness etc.	Yes	3	4	12	<ul style="list-style-type: none"> <li>Always use the DM approve disinfectant (Ref. DM-PH&amp;SD-L2-APB)</li> <li>Ensure the ventilation in the area where worker are using disinfectant, by opening the windows &amp; doors</li> <li>Ensure the DM approved PPEs</li> <li>Chemical auto dilution machine provided to avoid contact while mixing (If required)</li> <li>All staff trained in the risks &amp; SOP,</li> <li>Disinfectant chemicals must be stored &amp; transport as the DM guidelines</li> </ul>	1	4	4	<ul style="list-style-type: none"> <li>Close supervision / Monitoring must be done</li> </ul>	Supervisor
<b>Contact with contaminated material/ biological Hazards</b>	Contact with contaminated material may lead to food poisoning, allergies, infectious diseases	Yes	4	4	16	<ul style="list-style-type: none"> <li>Avoid direct contact with contaminated water and equipment</li> <li>All waste should be contained in tied plastic</li> <li>Always maintain personal hygiene</li> <li>Staff should wear task specific PPEs such as Safety gloves, safety mask, safety shoes</li> <li>Never eat or drink in garbage room and prior to take food wash your hand thoroughly</li> </ul>	1	4	4	<ul style="list-style-type: none"> <li>Stock and condition of PPEs to be checked frequently by the Duty Officers and Supervisors</li> <li>Provide training on personal hygiene to the staffs</li> </ul>	Supervisor
<b>Exposure to Dust</b>	Suffocation due to exposure to dust, nose and eyes irritation	Yes	3	4	12	<ul style="list-style-type: none"> <li>Use the safety mask and safety glass, while carrying out the dusting task</li> <li>Provide warning sign board to avoid unauthorized entry into the working area</li> </ul>	1	4	4	<ul style="list-style-type: none"> <li>Adequate supervision required in order to ensure that staffs wearing task specific PPEs</li> </ul>	Supervisor
<b>Protruding objects/ Sharp edges/ Needle prick</b>	Cut injury, Needle piercing	Yes	3	4	12	<ul style="list-style-type: none"> <li>Do not enter your hand inside the unreached areas</li> <li>Do not put hands inside the garbage liner as well as do not compress</li> <li>Always use litter picker equipment to collect waste and do not lift the tissues with bare hands</li> <li>Use safety gloves to get protect from the sharp edges</li> <li>Keep the garbage bag far away from body while disposing of to prevent needle prick injuries Personnel to wear safety glasses, gloves, and neck to toe clothing whilst in</li> </ul>	1	4	4	<ul style="list-style-type: none"> <li>Awareness training must be conducted</li> <li>Close supervision / Monitoring must be done</li> <li>TBT must be conducted prior to start of the task by supervisor</li> </ul>	Supervisor

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			L	S	R		L	S	R		
						the vicinity of the discharge chute					
<b>Manual Handling/ Ergonomics</b>	Slip, trip and fall, Back pain and Musculoskeletal disorder	No	4	3	12	<ul style="list-style-type: none"> <li>Never handle heavy materials</li> <li>Regular maintenance for all garbage trolleys to ensure smooth movement</li> <li>Pushing is preferable while moving trolley and ensure vision is not obstructed</li> <li>Get additional manpower support while moving trolley through slop</li> <li>Always shift materials in garbage trolley and do not carry on hand</li> <li>Job rotation for the operators</li> <li>If any back/joint pain is developed; consult doctor immediately</li> </ul>	1	3	3	<ul style="list-style-type: none"> <li>Manual handling training to be provided by HSEQ department</li> <li>Task specific training TBT to be conducted by supervisor</li> </ul>	Supervisor
<b>Slip, trip &amp; fall</b>	Fracture, bruises, sprain and abrasion etc.	No	4	3	12	<ul style="list-style-type: none"> <li>Ensure that safety signs are located in the right place to warn public</li> <li>Water/liquid spillage should be wiped immediately</li> <li>Task area should be lit adequately</li> <li>Staff do not leave cleaning materials/equipment unattended</li> <li>To start the machine first connect it to power supply, select power supply that will make the cable behind you thus will not step or move the machine on it</li> <li>Always ensure that cables are protected from tripping e.g. covering, barricading, signage etc.</li> <li>Staff do not leave cleaning materials/equipment unattended</li> <li>Gumboot must be used</li> </ul>	1	3	3	<ul style="list-style-type: none"> <li>Close supervision / Monitoring must be done</li> <li>Task specific training to be conducted for the staff</li> <li>TBT must be conducted prior to start of the task by supervisor</li> </ul>	Supervisor
<b>Exposure to electricity</b>	Electric shock, Electric burn and fall	Yes	2	4	8	<ul style="list-style-type: none"> <li>Ensure that the electrical switch board &amp; DB should not be touched during cleaning and disinfection</li> <li>RCCB/ ELECB must be installed at the DBs, SMDBs for all main MCBs</li> </ul>	1	4	4	<ul style="list-style-type: none"> <li>Close supervision / Monitoring must be done</li> <li>TBT must be conducted prior to start of the task by supervisor</li> </ul>	Supervisor
<b>Exposure to hazardous</b>	Skin and eye irritation, skin	Yes	3	4	12	<ul style="list-style-type: none"> <li>Long-handled brushes, and appropriate gloves, provided and staff trained in their use</li> </ul>	1	4	4	<ul style="list-style-type: none"> <li>Chemical Handling training to be provided by</li> </ul>	Supervisor

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substances	dermatitis, respiratory irritation					<ul style="list-style-type: none"> <li>Chemical auto dilution machine provided to avoid contact while mixing chemical with water</li> <li>All staff trained in the risks assessment, use and storage of cleaning chemicals/disinfectant and must wear personal protective equipment as instructed</li> <li>Products needs to be used in accordance with safety data sheets and PPE is used when appropriate</li> <li>Staff must wash the rubber gloves after using them and store them in a clean &amp; dry place</li> </ul>				HSEQ department <ul style="list-style-type: none"> <li>Close supervision / Monitoring must be done</li> <li>Task specific TBT to be conducted by supervisor</li> </ul>	
Disposal of chemicals waste & PPEs	Damage to flora and fauna	Yes	3	4	12	<ul style="list-style-type: none"> <li>Ensure disinfectant &amp; used disposal PPEs must be disposed off in the double –lined plastic /trash bags according to MSDS and DM guideline</li> <li>These waste must be segregated from other waste and dispose as soon as possible through DM approved service provider</li> <li>Dispose off chemicals through approved service provider</li> <li>All spillages must be effectively cleaned as per MSDS &amp; DM guidelines</li> </ul>	1	4	4	<ul style="list-style-type: none"> <li>Awareness campaign to protect environment</li> <li>Waste segregation and disposal</li> <li>Spill kits are available on designated location for emergency</li> </ul>	Supervisor

Prepared By:		Approved By:		Issue Date	01/4/2020
				Revision No.	00

Rank	Likelihood Description	Rank	Severity Description (Health and Safety)	Severity Description (Environment)
1 = Rare	Never occurred	1 = Insignificant	Minor injuries which may require self-administrated first aid. Injured personnel can continue to perform normal duties	Insignificant effects on biological of physical environment
2 = Possible	Has occurred	2 = Minor	Injuries requiring on-site treatment by medical practitioner. Personnel unable to continue to perform normal duties	Minor short-term effects but not affecting ecosystem functions
3 = Likely	Has occurred more than once	3 = Moderate	Serious injuries requiring off-site treatment by medial practitioner or hospitalization. Long term or permanent disability	Moderate medium term environment effects
4 = Often	Occurs several times per year	4 = Major	Single fatality/Legal Requirements	Serious, continuous environment impairment of ecosystem functions
5 = Almost Certain	Occurs frequently	5 = Catastrophic	Multiple fatalities/Legal Requirements	Very serious, long-term environment impairment of ecosystem functions

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Matrix		Severity				
		1	2	3	4	5
Likelihood	1	1	2	3	4	5
	2	2	4	6	8	10
	3	3	6	9	12	15
	4	4	8	12	16	20
	5	5	10	15	20	25

  

Risk Rating and Prioritization		
15 - 25	Extreme Risk	Activity should not proceed in current form
8 - 12	High Risk	Activity should be modified to include remedial planning and action
4 - 6	Moderate Risk	Activity can be performed subject to management and/ or modification
1 - 3	Low Risk	No action required, unless escalation of risk is possible