

Logo	<b>Hazard Identification &amp; Risk Assessment – Building Demolition Work</b>	<b>Doc Ref #:</b> XYZ/IMS/HSEQ/F/00 <b>Issue Date:</b> DD-MM-YYYY <b>Rev #:</b> 00 <b>Page 1 of 8</b>
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<b>Risk Assessment Ref #</b>		<b>Assessment Date</b>	
<b>Project Ref #</b>		<b>Next Assessment Date</b>	
<b>Project Name</b>		<b>Site Location</b>	
<b>Main Activity</b>		<b>Prepared By</b>	

S/#	Activity	Hazard and Impact	Affected People	Risk Level	Control Measures	R. Risk Level	Action By
				H/M/L		H/M/L	
1	Vehicle movement at workplace	Hit by moving vehicle at the workplace.	Pedestrians/ People working onsite/ Public nearby	High	<ul style="list-style-type: none"> <li>- The vehicle movement should be separated.</li> <li>- All the vehicles should be parked in reverse position.</li> <li>- Banksman shall be used when reversing the vehicle.</li> <li>- Reverse alarm and light shall be installed in all the vehicles.</li> <li>- At corners where pedestrian interact with vehicles, magnifying mirrors shall be installed to alert others.</li> <li>- Speed limit at the corners must be mentioned visible.</li> <li>- Training of workers and drivers and daily TBT.</li> <li>- Speed barkers before corners to slow down the vehicles.</li> </ul>	Low	QHSE Manager/ Project Manager/ Site Manager

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<b>2</b>	Noise	Hearing ability disturbance and disturbance to public	Workers/ Public	High	<ul style="list-style-type: none"> <li>- Noise making equipment shall be maintained.</li> <li>- Segregation of the workplace.</li> <li>- PPEs provision and safety signs placement.</li> </ul>	Low	QHSE Manager/ Project Manager/ Site Manager
<b>3</b>	Demolition work and working outside	Dust inhalation by workers, operators, helpers and public.  Inhalation of dust can lead to lungs problems.	Workers/ Helpers/ Public	High	<ul style="list-style-type: none"> <li>- Ensure that the controls are in place to control the exposure to the dust.</li> <li>- All controls are noted in method statement of the activity.</li> <li>- Cutting, demolition activities produce dust, so dust suppression is required.</li> <li>- Area must be covered to contain the dust.</li> <li>- Workers should be provided with masks and respirators.</li> </ul>	Low	QHSE Manager/ Project Manager/ Site Manager
<b>4</b>	Work at height	<ul style="list-style-type: none"> <li>- Fall from height</li> <li>- Rolling objects fall</li> </ul> <p>The workers can fall down when working at height or on elevated work platform.</p> <p>The edges of the elevated work platforms and areas are unprotected and rolling objects can fell down.</p>	Workers/ Helpers	High	<ul style="list-style-type: none"> <li>- Proper work platform should be provided to work at height.</li> <li>- All the edges of the working platforms and work areas need to be covered with toe boards.</li> <li>- Scaffolding and MEWPs need to be guarded with guard rails.</li> <li>- Workers should be provided with training and supervision.</li> <li>- Workers are need to be provided with PFAS. PFAS attached to overhead lanyard.</li> <li>- PPEs, information and induction training need to be delivered.</li> </ul>	Low	QHSE Manager/ Project Manager/ Site Manager

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					<ul style="list-style-type: none"> <li>- MEWPs and scaffoldings need to be placed on firm and even ground.</li> <li>- Outriggers of the scaffolding need to be extended.</li> <li>- Suitable rescue plan needs to be in place and all the workers know their responsibility and part of job.</li> </ul>		
5	Soft stripping or removal of all non-structural elements out of building.	Cuts, abrasions can lead to injuries specially to hands and arms when moving non-structural elements.	Workers/ Helpers	High	<ul style="list-style-type: none"> <li>- All the workers should be provided with the information about the task they are going to work on.</li> <li>- Suitable arrangements must be made to move heavy objects out of the building.</li> <li>- Correct PPEs are provided to perform the job. Robust coverall must be worn.</li> </ul>	Low	QHSE Manager/ Project Manager/ Site Manager
		Toxic materials and chemicals can be accidentally touched or may fell on workers and can lead to mild to severe skin irritation, skin burn, skin inflammation.		High	<ul style="list-style-type: none"> <li>- All the chemicals must be identified that are present at work site and need to be move.</li> <li>- Safety data sheet of all the chemicals must be available and reviewed.</li> <li>- Hazards associated with the chemicals are identified and relevant controls are implemented.</li> <li>- Corrosive chemicals need to be identified and relevant PPEs should be provided.</li> <li>- Before removing the PPEs after job, they need to be washed so that body don't contact with residue chemicals.</li> </ul>	Low	QHSE Manager/ Project Manager/ Site Manager

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					<ul style="list-style-type: none"> <li>- All the works must be trained and experienced in handling the chemicals.</li> <li>- Workers should be provided with respirators and masks when handling chemicals to prevent inhalation.</li> <li>- If asbestos is being removed from the worksite, specialists are hired for this job and safe dumping practice is adopted.</li> </ul>		
Soft stripping or removal of all non-structural elements out of building.	Slip, Trip, and Fall is very likely to occur because during movement or handling of materials, workers can slip, trip and fell on ground. It will lead to twisting, bone fracture even death.	Workers/ Helpers	High	<ul style="list-style-type: none"> <li>- SSW is in place and explained to all the workers</li> <li>- Manual handling is minimized.</li> <li>- The passage is clear of the hurdles.</li> <li>- The flooring/ walking surface is free of oil/grease or any lubricant that can lead to slip and fall.</li> <li>- Uneven floor is marked and warning signs are posted.</li> <li>- Illumination arrangements are made for workers.</li> <li>- Load is divided into parts to ensure workers know where they are going when handling manually.</li> <li>- Training and instruction must be given.</li> </ul>	Low	QHSE Manager/ Project Manager/ Site Manager	
	Sharp objects penetrating foot can lead to injuries. When moving the elements out of the building,		High	<ul style="list-style-type: none"> <li>- Workers must be provided with the robust footwear.</li> <li>- The passage way should be clear of sharp objects.</li> </ul>	Low	QHSE Manager/ Project Manager/ Site Manager	

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		sharp objects can penetrate body.			<ul style="list-style-type: none"> <li>- SSW should be in place to prevent the incident.</li> <li>- Good housekeeping is needed.</li> </ul>		
		Contact with live services when moving items out of building. Workers may establish contact with electrical system of the building.	Workers/Helpers	High	<ul style="list-style-type: none"> <li>- Live services e.g., underground, overhead and inside the wall services must be identified, marked and isolated.</li> <li>- Works should know the exact location of services.</li> <li>- PPEs must be provided to perform the job.</li> <li>-</li> </ul>	Low	QHSE Manager/ Project Manager/ Site Manager
6	Mechanical Aided Demolition of the structure	Floor collapse due to overloading or Premature Collapse of whole building or half of it.	Workers/ Helpers/ Technicians/ Public	High	<ul style="list-style-type: none"> <li>- Survey the worksite and area to be demolished.</li> <li>- Check the structure construction.</li> <li>- Develop a demolition plan</li> <li>- Remove the debris/ demolished material from floor to minimize the risk of overloading</li> <li>- Good supervision of the work</li> <li>- Experienced workers should be hired for the job</li> <li>- Workers should be provided training, information and educate them to stop the job if they see any hazard at workplace</li> <li>- Close supervision of the hazardous activities</li> </ul>	Low	QHSE Manager/ Project Manager/ Site Manager

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					<ul style="list-style-type: none"> <li>- The area must be covered with tarpaulin and metal sheets to secure the falling debris and save public</li> </ul>		
		Debris falling on the demolishing machine	Operator	High	<ul style="list-style-type: none"> <li>- Proper machine should be used for the job.</li> <li>- The machine should be able to work from an arm's length.</li> <li>- Ensure the body and the cabin is rigid enough to withstand the force of falling debris.</li> <li>- The cabin of the machine should have reinforced cabin.</li> <li>- Operator and banksman will have 2 ways communication.</li> </ul>		
7	Cutting	<p>Metal cutting activity using oxygen and propane will lead to severe consequences.</p> <p>e.g., burns, fire explosion etc.</p>	Operator/ Other workers	High	<ul style="list-style-type: none"> <li>- The activity should be done on an isolated place.</li> <li>- Only authorized worker must operate the cutting plant.</li> <li>- The tanks should be stored in a proper cage.</li> <li>- The activity should be done only after getting PTW and permission.</li> <li>- Hot work activity related Risk Assessment must be done.</li> <li>- Firefighting equipment is available at reasonable place. Better is if it is available within 30ft of the activity.</li> </ul>	Low	QHSE Manager/ Project Manager/ Site Manager

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					<ul style="list-style-type: none"> <li>- Fire watcher should be available during whole activity.</li> <li>- All flammable materials and other cylinders should be removed from the workplace and vicinity.</li> <li>- Training, supervision and information exchange before job starts.</li> </ul>		
		Wood piece cutting using powered cutter	Operator/ Other workers	High	<ul style="list-style-type: none"> <li>- The correct equipment usage.</li> <li>- Overhead activity should be prevented.</li> <li>- On-ground cutting activity</li> <li>- PTW and Risk Assessment before job.</li> <li>- Training, supervision, and information.</li> <li>- Inspection of equipment</li> <li>- Correct equipment with hold-to-run.</li> <li>- PPEs and emergency equipment provision.</li> </ul>	Low	

**Risk Matrix**

Risk Rating		Likelihood				
		1	2	3	4	5
C o n s e q u e	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

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Category	Rating	Description
Rare	1-3	May occur every 10 years
Unlikely	4-8	May occur every 5 years
Possible	9-12	May occur every year
Likely	15-20	May occur twice every year
Frequent	≥20	May occur every time when activity is performed with poor controls in place.

Prepared By	Reviewed By