



# Risk Assessment

Risk Assessment Title:		Working at Height										
R/A Number:		MJPP-RA-01			Revision:		A					
Item	Task (Steps)	Potential Hazard	Potential Incident	Existing Control	Current Risk			Additional Control	Final Risk			Remarks
					Seve	Freq.	Risk		Seve.	Freq.	Risk	

Attachment #1. Risk Assessment.

1	Working at height												
1	Work using Mobile Scaffold <i>Bekerja menggunakan scaffolding</i>	<ul style="list-style-type: none"> <li>- Slipping and Tripping <i>Tergelincir dan tersandung</i></li> <li>- Falls, <i>Terjatuh</i></li> <li>- Falling objects <i>Benda jatuh</i></li> </ul>	Personnel injury, death	<ul style="list-style-type: none"> <li>- All personnel must use appropriate of PPE including full body harness <i>Semua pekerja wajib menggunakan APD dan alat pelindung jatuh</i></li> <li>- Mobile scaffold must be checked and tagged by Supervisor scaffold before used, <i>Scaffolding harus diperiksa dan di TAG oleh scaffold Supervisor sebelum digunakan,</i></li> <li>- Organise storage with heavy / bulky objects at lower levels. <i>Atur penyimpanan benda berat dan ringan</i></li> </ul>	3	3	9	<ul style="list-style-type: none"> <li>- Ensure working area and access is in safe condition</li> <li>- All personnel must use appropriate of PPE including full body harness</li> <li>- Make sure that scaffolding installed properly before the WAH activity,</li> <li>- Personnel should be trained WAH by HSE MJPP,</li> <li>- Mobil scaffold always inspected by supervisor scaffold periodically,</li> <li>- Provide warning signs, cones or fencing if needed.</li> <li>- <i>Pastikan area kerja dan akses dalam kondisi aman</i></li> <li>- <i>Semua personi lharus menggunakan APD yang sesuai termasuk seluruh tubuh</i></li> <li>- <i>Pastikan perancah dipasang dengan benar sebelum aktivitas WAH,</i></li> <li>- <i>Personel harus dilatih WAH oleh HSE MJPP,</i></li> <li>- <i>Mobil scaffold selalu diperiksa oleh scaffold supervisor secara berkala,</i></li> <li>- <i>Berikan tanda peringatan, kerucut atau pagar jika diperlukan.</i></li> </ul>	3	1	3		
		Fall due to impropely-installed safety rail and work platform  <i>Jatuh karena paga rpengaman dan platform kerja yang tida kdipasang dengan benar</i>	Personnel injury,Death <i>Pekerja terluka</i>	<ul style="list-style-type: none"> <li>- Comply with the standards for installing safety railing (2 rows, 90cm or over for upper row + middle row)</li> <li>- Install work platform without any gap (2 layers with the width of 50cm)</li> <li>- Install stairs when assembling 2 rows or more scaffolds (Install a ladder when stairs are impossible to install)</li> <li>- Fix it to outrigger or soild structure and maintain leveling</li> <li>- The height of BT scaffold needs to be less than 4 times the minimum width of the bottom</li> <li>- Avoid moving BT scaffold with worker on it</li> </ul>	3	3	9	<ul style="list-style-type: none"> <li>- Check installation of safety facilities and hoist way before using them</li> <li>- <i>Periksa pemasangan fasilitas keselamatan dan cara mengerek sebelum menggunakannya</i></li> </ul>	3	1	3		
NEW		- Afraid working at height <i>Takut bekerja</i>	- Personnel injury,Death <i>Pekerja terluka</i>	All personnel entering in the scaffolding	3	3	9	<ul style="list-style-type: none"> <li>- Blood pressure test</li> <li>- <i>Test tekanan darah</i></li> </ul>	3	1	3		



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		<i>diketinggian</i>		must be physically fit for the job and shall not be afraid of heights. <i>Semua personel yang masuk kedalam perancah harus sehat secara fisik untuk pekerjaan itu dan tidak takut ketinggian.</i>								
NEW		- Proper working platform	Personnel injury, Death <i>Pekerja terluka</i>	Work shall not be allowed to be carried out standing over wooden boxes; empty barrels and other make shift arrangements. <i>Pekerjaan tidak boleh dilakukan dengan berdiri di ataskotak kayu; barel kosong dan pengaturan shift lainnya.</i>	3	3	9	- Check continuesly working platform <i>Selalu lakukan pengecekan platform kerja</i>	3	1	3	
-	Work using ladder <i>Bekerja menggunakan tangga</i>	- Slipping and Tripping - Falls, - Falling objects <i>Tergelincir rdan tersandung Jatuh, Benda yang jatuh</i>	Personnel injury, death <i>Pekerjat erluka, fatality</i>	- Don't work from the top three rung of a ladders, - ladder rung need to be clean, should be free from grease or oil to prevent slips, - Ensure correct angle of ladder ( 1M out for 4M up), - No lone working when using ladders  <i>-Jangan bekerja dari tiga anak tangga teratas, - tangga tangga harus bersih, harus bebas dari minyak atau minyak untuk mencegah slip, - Pastikan sudut tangga yang benar (1M untuk 4M keatas), - Tidak ada yang bekerja saat menggunakan tangga.</i>	3	3	9	- Ensure working area and access is in safe condition - All personnel must use appropriate of PPE including full body harness, - Ladder only used for a short duration work, - The ladder must be in a good condition and inspected before used, - Floor surfaces suitable to use ( firm and even surface), - Segregate work area effectively. - Provide warning signs, cones or fencing if needed. <i>- Pastikan area kerja dan akses dalam kondisi aman - Semua personil harus menggunakan APD yang sesuai termasuk seluruh tubuh, - Tangga hanya digunakan untuk pekerjaan durasi pendek, - Tangga harus dalam kondisi baik dan diperiksa sebelum digunakan, - Permukaan lantai cocok digunakan (permukaan kokoh dan rata), - Pisahkan area kerja secara efektif. - Berikan tanda peringatan, kerucut ataupun pagar jika diperlukan.</i>	3	1	3	
-	Work using platform scaffold <i>Bekerja menggunakan</i>	- Slipping and Tripping - Falls, - Falling objects	Personnel injury, death <i>Pekerja terluka, fatality</i>	- All personnel must use appropriate of PPE including full body harness, - Platform scaffold must be checked and tagged by Supervisor scaffold before used,	3	3	9	- Ensure working area and access is in safe condition - Personnel should be trained WAH by HSE MJPP, - Platform scaffold always inspected by supervisor scaffold periodically All personnel must use	3	1	3	



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	platform scaffolding	Tergelincir dan tersandung Jatuh, Benda yang jatuh		<ul style="list-style-type: none"> <li>Organise storage with heavy / bulky objects at lower levels.</li> <li>Semua personil harus menggunakan APD yang sesuai termasuk seluruh tubuh,</li> <li>Platform scaffold harus diperiksa dan ditandai oleh scaffold Supervisor sebelum digunakan,</li> <li>Atur penyimpanan dengan benda berat / besar di tingkat bawah.</li> </ul>				<ul style="list-style-type: none"> <li>appropriate of PPE including full body harness,</li> <li>Provide warning signs, cones or fencing if needed.</li> <li>Pastikan area kerja dan akses dalam kondisiaman</li> <li>Personel harus dilatih WAH oleh HSE MJPP,</li> <li>Platform scaffold selalu diperiksa oleh supervisor scaffold secara berkala. Semu apersonil harus menggunakan APD yang sesuai termasuk seluruh tubuh,</li> <li>Berikan tanda peringatan, kerucut atau pagar jika diperlukan.</li> </ul>				
2	Working at the roof top Bekerja diatas atap	<ul style="list-style-type: none"> <li>Slipping and Tripping</li> <li>Falls,</li> <li>Falling objects</li> <li>Tergelincir dan tersandung</li> <li>Jatuh,</li> <li>Benda yang jatuh</li> </ul>	Personnel injury, death	<ul style="list-style-type: none"> <li>Install pole with life line onto the roof top,</li> <li>Use team handling where necessary.</li> <li>All access which used, must be checked before use and maintained in good condition.</li> <li>Step ladder provided for users to access areas safely</li> <li>Pasang tiang dengan garis kehidupan ke atap,</li> <li>Gunakan penanganan tim jika perlu.</li> <li>Semua akses yang digunakan, harus diperiksa sebelum digunakan dan dipelihara dalam kondisi baik.</li> <li>Tanggal angkah yang disediakan bagi pengguna untuk mengakses area denga naman</li> </ul>	3	3	9	<ul style="list-style-type: none"> <li>Ensure working area and access is in safe condition</li> <li>Personnel should be trained WAH by HSE MJPP,</li> <li>Platform scaffold always inspected by supervisor scaffold periodically All personnel must use appropriate of PPE including full body harness,</li> <li>Provide warning signs, cones or fencing if needed.</li> <li>Don't allow the activity is under it.</li> <li>Pastikan area kerja dan akse sdalam kondisi aman</li> <li>Personel harus dilatih WAH oleh HSE MLPP,</li> <li>Platform scaffold selalu diperiksa oleh supervisor scaffold secara berkala. Semua personil harus menggunakan APD yang sesuaitemasuk seluruh tubuh,</li> <li>Berikan tanda peringatan, kerucut atau pagar jika diperlukan.</li> <li>Jangan biarkan aktivitas berada di bawahnya.</li> </ul>	3	1	3	

<b>Prepared By:</b>	<input type="checkbox"/>
1. Project Manager	
2. HSE Officer	

Severity (S)	Frequency (F)
1 Minor Injury	1 Improbable

Risk Rating (RR)
R = S x F

Very High	High	Medium	Low
15-25	8-12	4-6	1-3



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3.	Supervisor		2	Major Single Injury	2	Possible	<table border="1"> <tr> <th colspan="7">Unacceptability Limits</th> </tr> <tr> <td colspan="7">More than 5 is unacceptable re-assess task and preventative actions.</td> </tr> <tr> <td colspan="7">S = 0 is deemed to be the limit of practicability of control measures.</td> </tr> </table>			Unacceptability Limits							More than 5 is unacceptable re-assess task and preventative actions.							S = 0 is deemed to be the limit of practicability of control measures.							<table border="1"> <tr> <th>S↓</th> <th>5</th> <th>4</th> <th>3</th> <th>2</th> <th>1</th> <th>←F</th> </tr> <tr> <td>5</td> <td>25</td> <td>20</td> <td>15</td> <td>10</td> <td>5</td> <td></td> </tr> <tr> <td>4</td> <td>20</td> <td>16</td> <td>12</td> <td>8</td> <td>4</td> <td></td> </tr> <tr> <td>3</td> <td>15</td> <td>12</td> <td>9</td> <td>6</td> <td>3</td> <td></td> </tr> <tr> <td>2</td> <td>10</td> <td>8</td> <td>6</td> <td>4</td> <td>2</td> <td></td> </tr> <tr> <td>1</td> <td>5</td> <td>4</td> <td>3</td> <td>2</td> <td>1</td> <td></td> </tr> </table>			S↓	5	4	3	2	1	←F	5	25	20	15	10	5		4	20	16	12	8	4		3	15	12	9	6	3		2	10	8	6	4	2		1	5	4	3	2	1	
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1	5	4	3	2	1																																																																						
4.	Foreman		3	Major Multiple Injuries	3	Occasional																																																																					
			4	Single Death	4	Frequent																																																																					
			5	Multiple Deaths	5	Regular																																																																					

**Risk Assessment Prepared by:**

HSE Officer (MJPP)			
.....	.....	.....	.....
NAME	Position	Signature	Date

**Risk Assessment Ckecked by:**

Supervisor (MJPP)			
.....	.....	.....	.....
NAME	Position	Signature	Date

**Risk assessment approved by:**

ESHA (Clariant)			
.....	.....	.....	.....
NAME	Position	Signature	Date



# Risk Assessment



Title : Working at Height

R/A No. : MJPP-RA-01

## Subcontractor

Name : Position : Signature : Date :

## SCT Construction Engineer

Name : Position : Signature : Date :

## SCT HSE Manager

Name : Position : Signature : Date :

## SCT Construction Manager

Name : Position : Signature : Date :


