
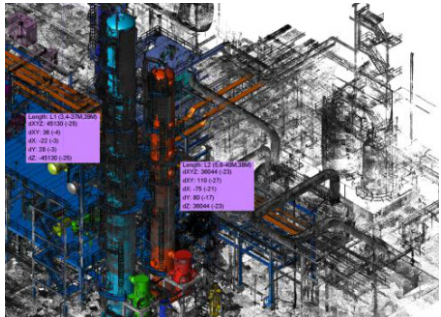


## ADNOC Ruwais Refinery Restoration Project (Detailed Damage Assessment)

No	Item	Description	Photo
1	<b>Scope of Work</b>	<ul style="list-style-type: none"> <li>Detail Damaged Assessment using 3D Laser Scanner (530m*700m)</li> </ul>	 <p>&lt;Laser Scanning&gt;</p>  <p>&lt;3D Data Analysis&gt;</p>
2	<b>Objective</b>	<ul style="list-style-type: none"> <li>Accurate dimensional survey of all the items in the damaged area to determine the damage status and determine items to be repaired/replaced items</li> </ul>	
3	<b>Detail</b>	<ul style="list-style-type: none"> <li>Major check points :               <ul style="list-style-type: none"> <li>- Static Equipment Plumbness, Roundness, Levelness, Nozzle orientation,</li> <li>- Structure/Shelter Plumbness,</li> <li>- Pipe alignment</li> </ul> </li> </ul>	
4	<b>Execution Time</b>	<ul style="list-style-type: none"> <li>2017 : 6 Weeks (Total 6 engineers, 2 Laser Scanners) – Phase 1(Damaged Area)</li> <li>2018 : 7 Weeks (Total 9 engineers, 2 Laser Scanners) – Phase 2(Undamaged Area)</li> </ul>	
5	<b>Output</b>	As-Is dimensional analysis report (Pdf file)	
6	<b>Result</b>	<ul style="list-style-type: none"> <li>Completed Scan &amp; Analysis within given amount of time</li> <li>Main Equipment, Pipes, Structures, Shelter and analysis conducted on 300+ items</li> </ul>	
7	<b>Benefits</b>	<b>Other Company</b>	
		<ul style="list-style-type: none"> <li>Can only provided laser scan data</li> <li>Laser Scan processing can only be done back in HQ</li> <li>Output : CAD format</li> <li>Analysis to be done by client</li> </ul>	<ul style="list-style-type: none"> <li>Provided all analysis information on site</li> <li>Detailed report of everything client wants to know</li> <li>Very happy client</li> </ul>