



# PHARMA DEVILS

ENVIRONMENT HEALTH SAFETY DEPARTMENT

## HAZARD IDENTIFICATION AND RISK ASSESSMENT

**Department:** Air Compressor

**Date:**

**HIRA Team:**

**Location:**

S.No.	Activity	Sub-Activity	Hazard	N/A/E	Risk	Existing control Measure	Risk Considering existing control measure			Addition control measures to bring risk to (ALARP level)	Residual risk after applying additional control measures			Remarks (if Any)
							Frequency	Severity	RPN (F*S)		1. Elimination 2. Substitution 3. Engg. Control 4. Administrative Control	Frequency	Severity	
1.	Air Compressor	Fit-up of machine	<ul style="list-style-type: none"> <li>Sharp edges</li> <li>defective tools &amp; tackles</li> <li>uneven floor</li> <li>Loosening of fasteners</li> </ul>	A	<ul style="list-style-type: none"> <li>Musculoskeletal disorder.</li> <li>Stuck by an object.</li> <li>Fall of material &amp; personal</li> <li>Cut injuries.</li> </ul>	345	3	2	6	2345	3	1	3	



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2.	Air Compressor	High limit test.(air receiver) (safety relive valve)	<ul style="list-style-type: none"> <li>• Explosion, burst</li> <li>• Mechanical failure</li> <li>• Lack of knowledge</li> <li>• Thickness Reduction</li> </ul>	A	<ul style="list-style-type: none"> <li>• Burn &amp; scald injuries</li> <li>• Property damage.</li> <li>• Environment problem</li> </ul>	35	4	3	12	345	4	1	4	-
3.	Air Compressor	Starting of compressor machine	<ul style="list-style-type: none"> <li>• Static charge</li> <li>• Noise</li> <li>• Electrical</li> <li>• Moving parts of machine</li> </ul>	A	<ul style="list-style-type: none"> <li>• Hearing loss</li> <li>• Electrical shock</li> <li>• Fire</li> <li>• Burn injuries</li> <li>• Entanglement</li> <li>• Pinch points</li> </ul>	35	3	3	9	345	3	1	3	-
4.	Air Compressor	Routine operation of air drier & air receiver	<ul style="list-style-type: none"> <li>• Noise</li> <li>• Electrical</li> <li>• Moving parts of air drier.</li> <li>• Heating Surface</li> </ul>	A	<ul style="list-style-type: none"> <li>• Hearing loss</li> <li>• Electrical shock</li> <li>• Fire</li> <li>• Burn Injury</li> </ul>	35	4	3	12	345	4	2	8	
5.	Air Compressor	Electrical panel & electrical motor	<ul style="list-style-type: none"> <li>• Electrical hazards</li> <li>• Moving parts of motor</li> <li>• Earthing system</li> </ul>	A	<ul style="list-style-type: none"> <li>• Electrical shock</li> <li>• Entanglement</li> <li>• Musculoskeletal disorder</li> <li>• Pinch points</li> <li>• Fire</li> </ul>	35	3	3	9	345	3	1	3	

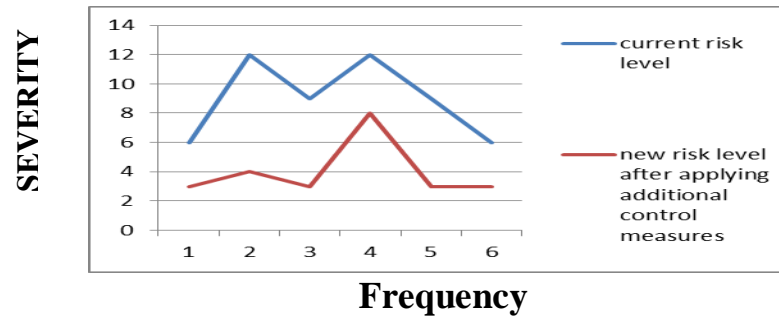


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6.	Air Compressor	Maintenance & Repair	<ul style="list-style-type: none"> <li>Defective tools &amp; tackles</li> <li>Electrocution</li> <li>Poor housekeeping</li> <li>Lifting of heavy parts</li> </ul>	A	<ul style="list-style-type: none"> <li>Musculoskeletal disorder</li> <li>Entanglement</li> <li>Struck by an object.</li> <li>Slip &amp; trip</li> </ul>	35	3	2	6	345	3	1	3	
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### MATRIX

5	5	10	15	20	25
4	4	8	12	16	20
3	3	6	9	12	15
2	2	4	6	8	10
1	1	2	3	4	5
0	1	2	3	4	5

LOW  
MODERATE  
HIGH

Frequency



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**REVISION HISTORY - HIRA Register**

Revision No.	Date	Reason for change	Originator (Leader)	Approval
		New Document	Plant/Functional Manager	Plant/ Functional Head

**Distribution: Leader /plant/functional Head(s) /Functional Head – EHS**

	Prepared By Operating Officer/Executive	Reviewed By Operating Manager	Approved By Department Head	Authorized By Head QA
<b>Sign</b>				
<b>Date</b>				
<b>Name</b>				