



# PHARMA DEVILS

ENVIRONMENT HEALTH SAFETY DEPARTMENT

## HAZARD IDENTIFICATION AND RISK ASSESSMENT

**Department:** Engineering **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. Administration	5. Control PPE's			Frequency	Severity	RPN (F*S)
1.	Diesel Generator	Transferring diesel from main diesel tank to DG diesel tank.	<ul style="list-style-type: none"> <li>Defective pipe line</li> <li>Static charge</li> <li>Unidentified pipe line</li> </ul>	A	<ul style="list-style-type: none"> <li>Entanglement</li> <li>Musculoskeletal disorder.</li> <li>Struck by an object.</li> <li>Slip &amp; trip</li> </ul>	35	2	3	6	1.	2.	3.	4.	5.	345	3	1	3	



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2.	Diesel Generator	During operation of diesel generator (i) Switch on of cooling tower. (ii) Change over by cutting main supply (iii) Load check. Coolant temperature.	<ul style="list-style-type: none"> <li>Electrical hazard</li> <li>Noise hazard</li> <li>Accumulation of static charge</li> <li>Overload</li> <li>Overheat</li> <li>Sharp edges</li> </ul>	A	<ul style="list-style-type: none"> <li>Fire</li> <li>Electric shock</li> <li>Struck by an object</li> <li>Hearing loss</li> <li>Cut injuries</li> <li>Pinch points</li> </ul>	35	3	3	9	345	2	3	6	-
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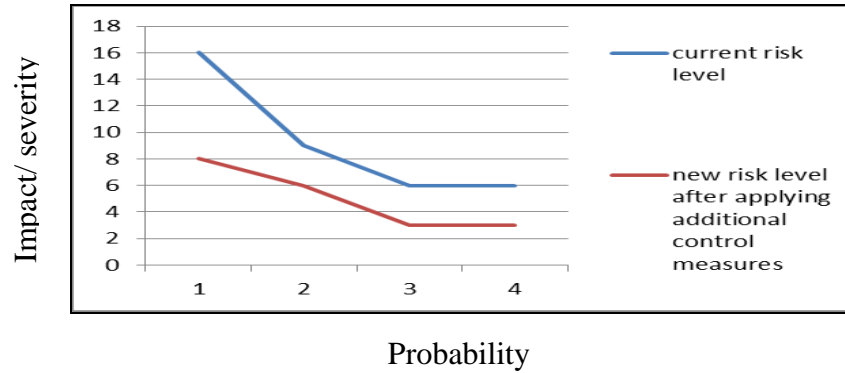
3.	Diesel Generator	Maintenance & Repair	<ul style="list-style-type: none"> <li>Defective tools &amp; tackles</li> <li>Electrical hazard</li> <li>Poor housekeeping</li> </ul>	A	<ul style="list-style-type: none"> <li>Musculoskeletal disorder</li> <li>Entanglement</li> <li>Struck by an object.</li> <li>Slip &amp; trip</li> </ul>	35	2	3	6	345	1	3	3	-
4.	Diesel Generator	Entry & Exits.	<ul style="list-style-type: none"> <li>Congested place.</li> <li>Poor housekeeping</li> <li>Uneven floor</li> <li>Cutouts</li> </ul>	A	<ul style="list-style-type: none"> <li>Slip &amp; Trip</li> <li>Struck by an object</li> <li>Musculoskeletal disorder</li> <li>Fire</li> <li>Entanglement</li> </ul>	35	2	3	6	2345	1	3	3	-



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### MATRIX

<b>SEVERITY</b>	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
		<b>Frequency</b>				

**LOW**  
**MODERATE**  
**HIGH**



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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
Sign				
Date				
Name				