



PHARMA DEVILS

ENVIRONMENT HEALTH SAFETY DEPARTMENT

HAZARD IDENTIFICATION AND RISK ASSESSMENT

Department: UTILITY (Boiler) **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		
01	Boiler Operation	Fit-up of boiler	<ul style="list-style-type: none"> Sharp edges defective tools & tackles uneven floor 	A	<ul style="list-style-type: none"> Musculoskeletal disorder. Stuck by an object. Fall of material & personal Cut injuries. 	345	3	2	6	2345	3	1	3	-		



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02	Boiler Operation	High limit test	<ul style="list-style-type: none"> Explosion, burst Mechanical failure 	A	<ul style="list-style-type: none"> Burn & scald injuries Property damage. 	34	4	3	12	345	4	1	4	-
03	Boiler Operation	Transferring of diesel /FO from storage tank to day storage tank	<ul style="list-style-type: none"> Improper joints in pipe line Improper painting of pipe line 	A	<ul style="list-style-type: none"> Spillage & leakage Fire Rust 	345	3	3	9	2345	3	1	3	-
04	Boiler Operation	Water feeding to boiler	<ul style="list-style-type: none"> Ball valve. Improper joints. Level indicator. 	A	<ul style="list-style-type: none"> May be burst ball valve made of gun metal. Leakage Level indicator not functioning properly. Bursting of Gasket 	34	3	2	6	345	3	1	3	



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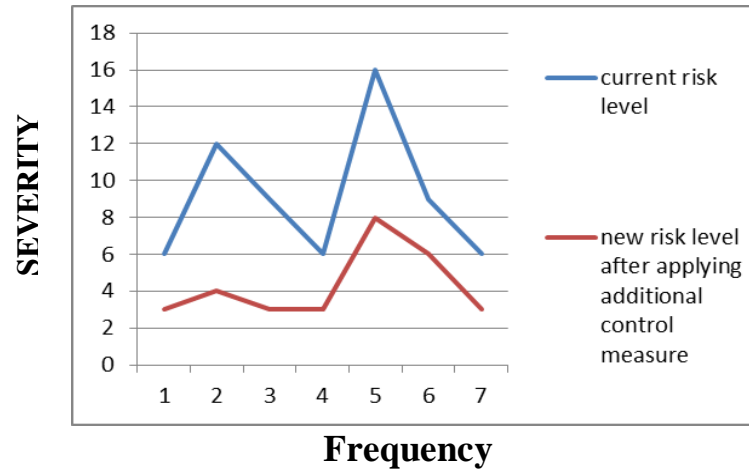
05	Boiler Operation	Operation of boiler	<ul style="list-style-type: none"> • Electrocution. • Explosion • Leakage • Moving parts 	E	<ul style="list-style-type: none"> • Electric shock. • Fire • Burn injuries • Spillage • Entanglement • Struck by an object. 	35	4	4	16	345	4	2	8	
06	Boiler Operation	Maintenance	<ul style="list-style-type: none"> • Electrocution • Fire. • Defective tools & tackles • Height work • Confined space 	A	<ul style="list-style-type: none"> • Musculoskeletal disorder. • Struck by an object. • Spillage • Fall of personal & material. • Entanglement. • Respiratory Suffocation due to gases and dust 	345	3	3	9	2345	3	2	6	
07	Boiler Operation	Thermal pipe lines	<ul style="list-style-type: none"> • Heated pipelines • Improper insulation. • Adhesive gum of insulation • Defective pipe line • Scaling 	A	<ul style="list-style-type: none"> • Burn injuries. • Fire. • Leakage. • Line bursting. 	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

Frequency

LOW
MODERATE
HIGH



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REVISION HISTORY - HIRA Register

Revision No.	Date	Reason for change	Originator (Leader)	Approval
00		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				