

PHARMA DEVILS ENVIRONMENT HEALTH SAFETY DEPARTMENT

HAZARD IDENTIFICATION AND RISK ASSESSMENT **Department:** Granulation Operation Date: HIRA Team: Location: S.No. Activity Sub-Hazard N/A/E Risk **Existing** Risk Addition **Residual risk** Remarks Activity control Considering control after applying (if Any) additional Measure existing measures to bring risk to control control (ALARP level) measure measures Elimination Substitution Engg. Control Administration Control RPN (F*S) Frequency RPN (F*S) Frequency Severity PPE' Severity 1 2 6 4 i Granulation 35 2 345 Movement Wet floor Ν Slip, trip & fall 2 4 2 2 1 1. • • Operation of personals Non Contamination • • usage of Skin irritation • **PPEs** & allergy Poor ٠ house keeping



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2.	Granulation Operation	Handling and storage of material	 Static charge Falling hazards. Sharp edges Manually handling to heavy equipme nt. Leakage and spillage. 	N	 Fire Slip & trip Cut injuries Entanglement Struck by an object Back injuries Sprain & strain Musculoskeletal disorder 	35	3	3	9	345	3	2	6	-
3.	Granulation Operation	During operation	 Working without secondar y Gowning Static charge. Mechanic al hazard Dust particles Working with naked hands. Height work 	N	 Contamination Fire Inhalation of dust particles Eye irritation Skin allergy. Fall of personal & material 	345	3	3	9	2345	3	1	3	-



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4.	Granulation Operation	Packing of material in drum and poly-bags	 Static charge generated Physical injury 	N	 Awkward posture Fire Anti-static material 	35	2	2	4	345	2	1	2	
5.	Granulation Operation	Entry, Exit way.	 Lack of space. Poor housekee ping 	N	Slip & tripFire	345	2	2	4	2345	2	1	2	
6.	Granulation Operation	Connection wire of moving equipment (not fix).	 Electrocu tion Moving parts Sparking 	A	 Electrical shock Fire Entanglement Tripping 	35	4	3	12	345	4	1	4	
7.	Granulation Operation	Operation of Rapid Mixture Granulator.	 Physical hazards Electrical hazards Defective internal locking system 	Ν	 Entanglement Struck by an object. Falling of personal Electrical shock 	35	4	2	8	345	4	1	4	



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8.	Granulation Operation	Operation of card mill.	Electrical hazardPhysical hazard	N	Electrical shockAwkward posture	35	3	2	6	345	3	1	3	
9.	Granulation Operation	Operation of Octagonal blender.	 Electrical hazard Physical hazard 	N	 Electrical shock Entanglement Struck by an object. Fall of personal & material 	35	4	2	8	345	4	1	4	
10.	Granulation Operation	Operation of FBD	 Suspende d load of bowl Electrical hazard Manually handling of bowl Defective nut bolts Cleaning of bowl 	N	 Fall of material & personal Electrical shock Back injuries Struck by an object. 	35	3	3	9	345	3	1	3	



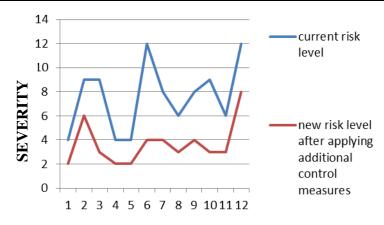
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11.	Granulation Operation	Operation of Sifter	Electrical hazardPhysical	N	Electrical shockEntanglement	35	3	2	6	345	3	1	3	
12.	Granulation Operation	Maintenance & cleaning	 Electrical Sharp edges. Slip & trip hazards. Dust Unsecure d material 	A	 Electrical shock. Cut injuries. Struck by an object. Silicosis Fall of material & personal. 	45	4	3	12	345	4	2	8	





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Frequency

MATRIX

	5	5	10	15	20	25
SEVERITY	4	4	8	12	16	20
VEF	3	3	6	9	12	15
SE	2	2	4	6	8	10
	1	1	2	3	4	5
	0	1	2	3	4	5
			Frequ	iency		

LOW MODERATE HIGH





HAZARD IDENTIFICATION AND RISK ASSESSMENT

	Revision No.	Date	Reason for change	Originator (Leader)	Approval
	00		New Document	Plant/Functional Manager	Plant/ Functional Head
Distributi	on: Leader /plant/functional Head(s) /Functional	ional Head – EHS			
	Prepared By	Reviewed By	Appro	ved By Au	thorized By
Sign	Operating Officer/Executive	Operating Manager	Departm	ent Head	Head QA
Date					