



# PHARMA DEVILS

ENVIRONMENT HEALTH SAFETY DEPARTMENT

## HAZARD IDENTIFICATION AND RISK ASSESSMENT

**Department:** Coating **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<br>2. Substitution<br>3. Engg. Control<br>4. Administration<br>5. PPE's | Frequency | Severity |                  |
| 1.    | Coating  | Assembly of Auto Coater Machine. | <ul style="list-style-type: none"> <li>• Defective tools</li> <li>• Sharp edges.</li> <li>• Electrical hazards</li> </ul> | A     | <ul style="list-style-type: none"> <li>• Musculoskeletal disorder.</li> <li>• Electrocutation.</li> <li>• Entanglement.</li> <li>• Slip &amp; trip.</li> <li>• Struck by an object.</li> </ul> | 35                       | 3   | 2        | 6         | 345  | 3  | 1         | 3        |                  |



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|    |         |  |  |   |   |     |   |   |    |      |   |   |   |   |
|----|---------|--|--|---|---|-----|---|---|----|------|---|---|---|---|
| 2. | Coating | Shifting machine from zero level to 1 <sup>st</sup> floor. | <ul style="list-style-type: none"> <li>Hydras</li> <li>Crane</li> <li>Defective lifting tools &amp; tackles.</li> <li>Inexperienced riggers</li> <li>Suspended load.</li> <li>Inexperienced signal man.</li> </ul> | A | <ul style="list-style-type: none"> <li>Struck by an object.</li> <li>Slip &amp; trip</li> <li>Failure of lifting tools &amp; tackles.</li> <li>Toppling of hydras &amp; cranes due to uneven ground.</li> </ul> | 345 | 4 | 3 | 12 | 2345 | 4 | 2 | 8 | - |
| 3. | Coating | Handling and storage of material.                          | <ul style="list-style-type: none"> <li>Sharp edges</li> <li>Manual handling.</li> <li>Shifting by trolley</li> <li>Poor housekeeping</li> <li>Lack of space</li> </ul>   | A | <ul style="list-style-type: none"> <li>Back injuries</li> <li>Cut injuries</li> <li>Slip &amp; trip</li> <li>Fall of material</li> <li>Entanglement</li> <li>Struck by an object.</li> </ul>                    | 45  | 3 | 2 | 6  | 345  | 3 | 1 | 3 | - |



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|----|---------|---|--|---|--|----|---|---|---|-----|---|---|---|--|
| 4. | Coating | After charging the material in auto-coater. | <ul style="list-style-type: none"> <li>Dust generation</li> <li>Poor housekeeping</li> <li>Electric hazard</li> <li>Non usage of PPEs</li> <li>Health hazard</li> <li>Wet floor</li> </ul> | A | <ul style="list-style-type: none"> <li>Inhalation of dust</li> <li>Chronic illness</li> <li>Electric shock</li> <li>Skin allergy</li> <li>Slip &amp; trip</li> <li>Spillage</li> </ul> | 35 | 3 | 3 | 9 | 345 | 3 | 2 | 6 |  |
| 5. | Coating | Packing of material in drum and poly-bags   | <ul style="list-style-type: none"> <li>Static charge</li> <li>Defective poly bags</li> <li>Fire</li> </ul>   | A | <ul style="list-style-type: none"> <li>Fire</li> <li>Anti-static poly bag.</li> </ul>  | 35 | 3 | 2 | 6 | 345 | 3 | 1 | 3 |  |
| 6. | Coating | Operation of solution tank.                 | <ul style="list-style-type: none"> <li>Spillage</li> <li>Defective pressure gauge</li> <li>Electric hazard</li> <li>Physical hazard</li> </ul>   | N | <ul style="list-style-type: none"> <li>Slip &amp; trip</li> <li>Entanglement</li> <li>Electric shock</li> </ul>  | 35 | 2 | 2 | 4 | 345 | 2 | 1 | 2 |  |



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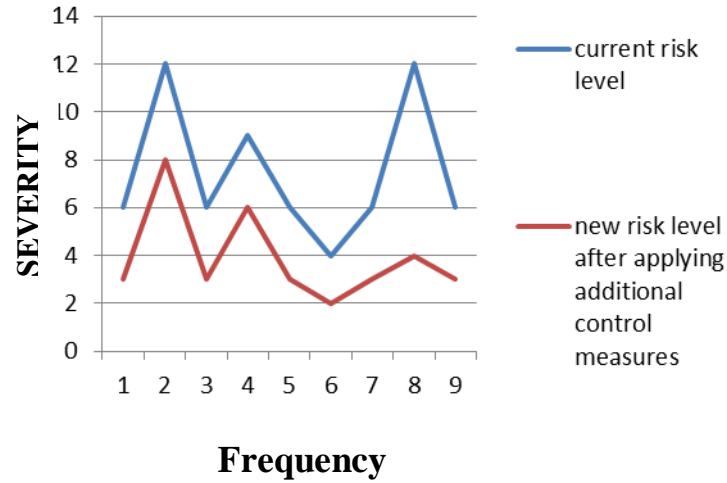
|    |         |  |   |   |   |     |   |   |    |      |   |   |   |  |
|----|---------|--|---|---|---|-----|---|---|----|------|---|---|---|--|
| 7. | Coating | Operation of solution preparation        | <ul style="list-style-type: none"> <li>Health hazard</li> <li>Physical hazard</li> </ul>                          | A | <ul style="list-style-type: none"> <li>Slip &amp; trip</li> <li>Skin allergy</li> <li>Eye irritation</li> </ul>   | 35  | 3 | 2 | 6  | 345  | 3 | 1 | 3 |  |
| 8. | Coating | Cleaning and maintenance of Auto-coater. | <ul style="list-style-type: none"> <li>Electric hazard</li> <li>Physical hazard</li> <li>Health hazard</li> </ul> | A | <ul style="list-style-type: none"> <li>Slip &amp; trip</li> <li>Musculoskeletal disorder</li> <li>Entanglement</li> <li>Struck by an object.</li> <li>Inhalation of dust</li> </ul> | 345 | 4 | 3 | 12 | 2345 | 4 | 1 | 4 |  |
| 9. | Coating | Entry, Exit way.                         | <ul style="list-style-type: none"> <li>Low space</li> <li>Poor housekeeping</li> </ul>                            | A | <ul style="list-style-type: none"> <li>Slip &amp; trip</li> <li>Struck by an object.</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  |

Frequency

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



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### REVISION HISTORY - HIRA Register

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

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

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