EMERGENCY ACTION PLAN

OF

M/S UNITED SPIRITS LTD.
FORWARD

To comply with the provision of Factories Act and to ensure the safety of workers as well as the safety of general public living in the vicinity of the factory, this emergency plan has been prepared under the kind guidance of the officers of the Department of Industrial Health and safety, Bhopal.

In the final analysis, I believe that the plant is only as safe as the people working in it want it to be. I am confident that the plant operating people will not only raise the level of safety consciousness down the lane, but also ensure that the guidelines contained in this Emergency Plan are strictly followed.
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<th>Page No.</th>
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</tr>
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<td>Details of local authorities</td>
<td></td>
</tr>
</tbody>
</table>
OBJECTIVE OF THE PLAN

Objective of the plan are to provided a system, capable of taking fast and effective action in a emergency situation in order to :-

1. Safe guard the factory personnel inside & public outside the factory.
2. Effect the rescue & treatment of causalities.
3. Safe guard the property and environment.
4. Bring the incident under control.
5. Treatment of casualties, Head count, and information and assisting relatives.
6. Provide authorities information to the news media.
7. Ensure rapid return to normal operation after emergency.
8. Preserve relevant records and equipment’s the subsequent inquiry.
9. Developing factory personal to ensure its at no panic on such occasion of safe, skilled, action will minimize the casualities, injuries and damages of other nature.
10. To maintain & culminate good image in public & National interst.
### SALIENT FEATURES OF THE PLANT

<table>
<thead>
<tr>
<th></th>
<th>Description</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Name of the factory</td>
<td>United Spirits Limited</td>
</tr>
<tr>
<td>2</td>
<td>Address of the factory</td>
<td>73, I-Sector, Govindpura Industrial Area, Tehsil Huzur Distt. Bhopal.</td>
</tr>
<tr>
<td>3</td>
<td>Name of the occupier</td>
<td>Ashok Kapoor</td>
</tr>
<tr>
<td>4</td>
<td>Address Phone No. of the occupier</td>
<td>48 Lower, 24 Vitthal Mallya Road, Bangalore</td>
</tr>
<tr>
<td></td>
<td>Phone</td>
<td>Phone (080) 2274452 – 58</td>
</tr>
<tr>
<td>5</td>
<td>Manufacturing Process</td>
<td>I M F bottling &amp; packaging</td>
</tr>
<tr>
<td>6</td>
<td>Sanctioned Power</td>
<td>50 KVA</td>
</tr>
<tr>
<td>7</td>
<td>Connected Load</td>
<td>38 KW</td>
</tr>
<tr>
<td>8</td>
<td>Power Generation</td>
<td>65 KVA (By DG Set)</td>
</tr>
<tr>
<td>9</td>
<td>Man Power employed</td>
<td>50</td>
</tr>
</tbody>
</table>
INTRODUCTION ABOUT THE UNIT

M/s Mc. United Spirits Ltd. Is an established organization and having registration under companies Act, 1956 to conduct business in bottling of Indian Made Foreign liquor marketing.

LOCATION

The factory is situated at 73, I-Sector, Govindpura, Industrial Area, Bhopal away form main city and railway lines and have sufficient green vegetation around and inside the factory area.

PROCESS

The manufacturing process could be classified in three parts namely :-

1. Blending.
2. Filtration.

In the blending process Ethyl Alcohol is mixed with DM water and HBS and food flavour in measured quantity in SS tanks. This liquid is then filtered with the help of filters. This is the Indian Made Foreign Liquor (IMFL). It is filled in the bottles.
Environment Impact Assessment :-

**Socio – Economic Impact** –

No adverse impact on the population due to running of this industry is foreseen. New job opportunities to the residents of neighboring area due to this industry is a positive socio-economic impact.

**Air Quality**

As no obnoxious emissions are expected there will be no significant impact on existing air quality due to running of this plant.

**Water Quality**

Waste water generated from different sections and domestic use are been treated according to the requirement of M.P. Pollution Control Board. The treated effluent shall confirm to the norms specified by M.P. Pollution Control Board & is been used for irrigation within the factory premises only.

**Noise**

This is located at 73, l-Sector, Govindpura, Industrial Area, Bhopal .There is no significant noise pollution due to the running of this unit.

Finished Products

Bottled wines

Bye Products

Nil.

Raw Material required are :

1. Ethyl Alcohol (C2H5OH) 96% pure.
2. Food flavours.
3. H B S.
The following hazardous materials are stored in the factory:

<table>
<thead>
<tr>
<th>S.No.</th>
<th>Name</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Hydrochloric acid (HCL)</td>
<td>20 Kgs.</td>
</tr>
<tr>
<td>2</td>
<td>Caustic Soda (NaOH)</td>
<td>75 Kgs.</td>
</tr>
<tr>
<td>3</td>
<td>Diesel</td>
<td>100 Ltrs.</td>
</tr>
<tr>
<td>4</td>
<td>Ethyl Alcohol (C2H5OH)</td>
<td>15 KL each in three</td>
</tr>
</tbody>
</table>

Details of the plants & machines:

<table>
<thead>
<tr>
<th>S.No.</th>
<th>Name of the machines</th>
<th>Quantity</th>
<th>Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Storage tanks (Ethyl alcohol)</td>
<td>2 Nos.</td>
<td>40 KL (each)</td>
</tr>
<tr>
<td>2</td>
<td>D.M. Plant &amp; storage of DM water</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Bottle washing machine</td>
<td>3 Nos.</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Blending tanks</td>
<td>6 Nos.</td>
<td>14.5 KL–3 Nos.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>16.5 KL–2 Nos.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>25 KL – 1 Nos.</td>
</tr>
<tr>
<td>5</td>
<td>Filling machine</td>
<td>3 Nos.</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Sealing machines</td>
<td>3 Nos.</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Landing machine</td>
<td>3 Nos.</td>
<td></td>
</tr>
</tbody>
</table>
IDENTIFICATION OF POTENTIAL AREA OF HAZARDS

Hydrochloric Acid and Caustic Soda both chemicals are included in the schedule specified under health hazardous substances, for which authorization has to be taken under Environmental Protection Act. The contact in handling or undesired contact with skin / body will cause severe injury. Diesel and Alcohol which are itself inflammable materials, can catch fire & lead injury to man & material.

1. Hydrochloric Acid

   Chemical formula : HCL

   **Physical Properties**
   
   Physical State : Liquid
   
   Color : Clear & yellowish liquid
   
   Odour : Pungent & Poisonous odour
   
   Solubility : Soluble in water & alcohol
   
   Specific gravity : 1.19
   
   Boiling Point : It is a Hydrogen Chloride Solution in water up to 38%.

OTHER CHARACTERISTICS & HEALTH HAZARDS

It is corrosive to body tissue. Inhalation of concentrated vapours may cause loss of consciousness and damaged tissue.

Contact with eyes may results in irritation or loss of vision. Ingestion may cause severe injuries.
Counter Measures -

- In case of inhalation of funes remove the patient to fresh air immediately by & give artificial respiration if required, and send hospital immediately.

- In case of skin contact, remove the contaminated clothes, wash the skin with copious amount of water and with washing soda solution in water.

- Report to Medical Centre.

2. Sodium Hydroxide

Chemical : NaOH
Mol. Wt. : 40

Physical Properties :
Physical Stage : White deliquescent Pieces Lumps or Flakes.
Color : White
Solubility : Highly soluble in water
Specific gravity : 2.120
Melting Point : 318\(^{0}\) C
Boiling Point : 1390\(^{0}\) C

OTHER CHARACTERISTICS & HEALTH HAZARDS

- It is highly corrosive when comes in contact with body tissue and gives irritation immediately.

- Contact with eyes causes severe damage to delicate optical tissues.
- Inhalation may cause damage of respiratory tract.
- Ingestion may cause vomiting and damage to mucous membrane.

**Disasters hazard**

Dangerously reacts with water and steam to produce heat and attack lining tissue.

**Counter Measures**

- In case of swallowing give 2 to 4 glasses of water immediately do not induce vomiting.
- In case of contact with yes, wash the eyes with fresh water & report to medical centre.

**ETHYL ALCOHOL**

- Chemical Formula : C2H5OH
- Molecular Weight : 456.
- Sp. Gravity : 0.7147

**Physical Properties**

Highly volatile, colourless, bitter in taste, surest smell, and highly inflammable liquid. It is mixable in all proportions with water, eathers and other alcohol. Its flash point is as low as 40°C and can catch fire at elevated temperature. It forms explosive mixture with air, if mixed to the extent of 2.6% by weight. It has no severe effect on skin or tissues if inhaled. It has fire hazard. Possible measures have to be taken for arresting the same in time. Step has been taken to install sprinkler system on and around the storage tanks.
ELECTRICAL HAZARDS

Though, flame, proof fittings are provided Electrical injuries may occur anywhere. It may be caused by direct current, alternative current or from lightening. The security of the injuries by electric shock depends upon:

1. The amount of current flowing through the body.
2. The path of current has taken through body to the earth. A weaker current passing through the chest is more dangerous than a relatively stronger current passing through the lower limits.
3. Length of the victim is in contact.
4. Type of electric energy AC or DC.
5. Physical condition of victim.

Following signs and symptoms are found in electric shocks

1. Sudden spasm
2. May be unable to release hands which holds the live point.
3. Burns
4. Cries aloud and falls on the grounds.
5. Several pain.
6. Unconsciousness.
7. Breathing impaired or stopped.
8. Burns leading to severe surgical shocks.

FIRST AID / COUNTNER MEASURING

Any delay in first aid in electric shock is a delay for ever, hence the person giving the first aid must not get excited and must not endanger his life.
1. The current must be cut off or the plug should be pulled out.

2. He must not touch the victim or the live conductor.

3. If it is difficult to cut the current, the victim has to be separated by using a dry coat rope, stick etc.

4. If there is the dry wooden chair or rubber sheet, he must stand on it and then separate the victim.

5. If the cloths are smoldering, the spark should be extinguished.

6. Artificial respiration is to be started immediately. This may be done whenever the victim is in unconsciousness while the pulses. The artificial respiration should be continued till the doctor has arrived one may like to continue for atleast 8 hours before obarconing the case as dead. When the patient start swallowing, one may understand that spontaneous breathing is being received. Artificial respiration should be continued till normal movement of breathing is fully established as the respiration may falls again if left earlier.

7. A blanket should be out around the patient. The patient has be kept warm to treat the shock. He may be given warm, sourest drink if he is conscious otherwise not, as it may harm him.

8. Superficial bones of lightening strange may be covered with a septic dressing. The deeper bums caused from contact with live conductors may be covered with clean sheet and the patient taken to a hospital without any further delay.

9. External cardiac massage may be given if the pulse is not felt or even artificial respiration.
Power Cables

It is to be secured properly. It is to be protected from physical hazards. All junction boxes should be protected and supported. Checking of ear things is necessary. All junction box should be filled with compound.

FIRE FIGHTING FACILITIES & RESPONSIBILITIES

The unit has following facilities to flight fire in any emergency situation :-

1. Unit has sufficient capacity of water.
2. Hydrant pint near storage & bottling area.
3. Adequate Nos. of fire extinguishers.

FIRE EXTINGUISHERS

Dry chemical powder CO2 & foam type fire extinguishers are installed at various location of the factory as below :-

<table>
<thead>
<tr>
<th>S.No.</th>
<th>Type</th>
<th>Capacity</th>
<th>Location</th>
<th>Qty.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>DCP type</td>
<td>5 Kg.</td>
<td>Near LT room</td>
<td>1 Nos.</td>
</tr>
<tr>
<td>2</td>
<td>DCP type</td>
<td>5 Kg.</td>
<td>Finished goods godown</td>
<td>2 Nos.</td>
</tr>
<tr>
<td>3</td>
<td>DCP type</td>
<td>5 Kg.</td>
<td>Bottling hall</td>
<td>2 Nos.</td>
</tr>
<tr>
<td>4</td>
<td>Blending room</td>
<td>5 Kg.</td>
<td>Blending room</td>
<td>1 No.</td>
</tr>
<tr>
<td>5</td>
<td>Foam type</td>
<td>50 Ltrs.</td>
<td>ENA storage</td>
<td>1 No.</td>
</tr>
<tr>
<td>6</td>
<td>DCP type</td>
<td>10 Kg.</td>
<td>DG Room</td>
<td>1 No.</td>
</tr>
<tr>
<td>7</td>
<td>Water CO₂</td>
<td>9 Ltrs.</td>
<td>Blending room</td>
<td>1 No.</td>
</tr>
</tbody>
</table>
Fire Fighting Personnel

1. A trained team is available with us all the time.
2. List of persons trained under first aid scheme is as under :-
   (i) Mr. Ganga Charan
   (ii) Mr. Sonu Singh
   (iii) Mr. Raju
   (iv) Mr. Hari Mohan

First aid in case of burn

1. Act quickly
2. Put the affected part in cold water
3. If Immersion in cold water is not possible then pour cold water.
4. Put sterilized dressing on affected part.
5. Send for medical care.

Other Facilities

1. All workers are provided with required personal protective equipment's. (PPF’s).
2. 24 hours telephone is available at the time office.
3. Emergency vehicles at the factory premises are available at working hours of factory.
4. First aid boxes is equipped with necessary medicines, has been provided at required place.
CAUTION

1. No oil or oiling ointment should be installed in eyes unless prescribed by an ophthalmologist.

2. Do not apply saves or ointment of cover burns will dressing. However, the affected area should be protected with a clean cloth prior to medical care.

IN HOUSE FACILITIES:

1. First aid box : Plant – Bottling hall

2. Other like goggles, aprons, gloves, gum boots etc. are kept in security room.

3. 'NO SMOKING BOARD' displayed at prominent places inside the plant.

RESPONSIBILITIES:

a) **Of each employee**: Each one is responsible for his own safety as well as others and company. In case of injury, he will promptly report to his authorities.

b) **Of Process Adopted**:

   1) He is responsible for safe work place. Personal protective equipment’s (PPF), storage of materials, Lighting ventilation proper upkeep of safety and fire fighting equipment.

   2) He enforces company safety rules.

   3) Counsels and trains individual employee in safety and safe work practices.

   4) Investigates and properly reports / all accidents.
5) He sees that injured employee receives prompt and adequate medical attention.
6) He assists new employee in becoming familiar with their duties as well particular hazards connected with their duties and safety practices.

List of key persons:

<table>
<thead>
<tr>
<th>S.No.</th>
<th>Name of the person</th>
<th>Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Shri Ashok Kapoor</td>
<td>Occupier</td>
</tr>
<tr>
<td>2</td>
<td>Shri D.G. Laddha</td>
<td>D.G.M. Distillery</td>
</tr>
<tr>
<td>3</td>
<td>Shri P.R. Teli</td>
<td>Manager Protection.</td>
</tr>
<tr>
<td>4</td>
<td>Shri Rarvindra More</td>
<td>Executive Q.C.</td>
</tr>
</tbody>
</table>

Responsibilities delegated to key personnel

In case of any emergency person No. 1 the highest ranking authority hold the ones all controls of the situation and issue necessary order to others key personnel and safety committee members.

Office of the highest ranking authority will be designed as ‘Master Control Centre’. If access to his office is not possible, alternate location shall be designated.

In the absence of person No. 1 Person No. 2 will hold the position of person No. 1.
Similarly, any responsibilities assigned to a superior person will be taken ones by the next person in absence of the superior.

<table>
<thead>
<tr>
<th>S.No.</th>
<th>PERSON</th>
<th>RESPONSIBILITIES OF MERGENCY CO-ORDINATOR</th>
</tr>
</thead>
</table>
| 01.   | Mr. Manomay Das | 1) To declare state of Emergency  
          2) Owns all Supervision control and delegation of orders and evaluation of severe consequences. |
| 2.    | Mr. T.R. Teli | Rescue operation co-ordinator  
                  1) To assist person No. 1  
                  2) Tackle the one site situation.  
                  3) Co-ordination with safety and medical team to transfer the injured quickly for medical treatment.  
                  4) Action for evacuation. |
| 3.    | Mr. R.S. More | Emergency service co-ordinator  
                  1) To assist person No. 1 & 2  
                  3) Arrangement for evacuation of people from affected area.  
                  4) Inform statutory authorities of accident.  
                  5) Contact local voluntary services.  
                  Organisation for help transport availability and fire – brigades. |
| 4.    | Mr. Brijesh Dixit | 1) Direct trained fire fighting & security team for rescue operation in the affected area.  
                  Mr. Arun Saxena | Render first aid to the injured.  
                  Mr. Bhagwan Singh | 3) Use suitable extinguisher.  
                                    | 4) Control ambulance / transport to send the injured to medical centre for treatment.  
                                    | 5) Decide and initiate necessary evacuation measures. |
6) Ensure that prevention safety measures are initiated in near by area / Plant.
7) Replacing of used breathing safety items.
8) Invalidate all safety permits in the affected area.
9) To guide and take help of other personal available on the spot.

5. Mr. Mithun

1) To follow instruction of superiors & to communicate as directed.
2) Supervisor should reach the area & help the workers.
3) Not to allow the new entrants and to see that unwanted people go away from the site.
4) To use & to see that other workers are along using personal protections.
Manual Report  Alams  Rush to danger sport for Containment
Alerts  Alerts
Factory Manager & Safety Officer  On site emergency crew
(All shift incharge listed here to attend & to train people to execute).

Rush to spot  Other employed personal like
To control  concerns, administrators
The situation  should have to assess with
All available means
  Alert
Fire brigade
Control traffic
Rush to pick-up
Injured or provide
First Aid
Ambulance
Local Authorities  To inform neighbours villagers
(if required  District administrators
For necessary assistance  & SP to co-ordinate with
  establish ‘Emergency operation render’ to deal with off site emergency.
Local Authorities  To inform neighbours villagers
(if required  District administrators
For necessary assistance  & SP to co-ordinate with
  establish ‘Emergency operation render’ to deal with off site emergency.
TRAINING & EXERCISE

The copies of emergency action plan is issued to all the key personnel and essential workers to exercise the emergency action plan. In every six months, one drill will be conducted to view and activates the awareness among all the key personnel and essential workers.
<table>
<thead>
<tr>
<th>S.No.</th>
<th>Name of organization</th>
<th>Address</th>
<th>Tel. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Fire Service</td>
<td>Bhopal Pul Bogda</td>
<td>101, 2542222</td>
</tr>
<tr>
<td>2.</td>
<td>Police Station</td>
<td>T.T. Nagar</td>
<td>100, 2551194</td>
</tr>
<tr>
<td>3.</td>
<td>Medical Support</td>
<td>Sarda Hospital</td>
<td></td>
</tr>
<tr>
<td>4.</td>
<td>Dy. Director Industrial Health and Safety</td>
<td>Plot No. 236, Zone-I, M.P. Nagar,</td>
<td>2554776</td>
</tr>
<tr>
<td>5.</td>
<td>S.P. Bhopal</td>
<td></td>
<td>2540880</td>
</tr>
<tr>
<td>6.</td>
<td>M.P. Pollution Control Board</td>
<td>E-5, Arera Colony, Bhopal</td>
<td>2463742</td>
</tr>
<tr>
<td>7.</td>
<td>Controller of Explosive</td>
<td>E-7, HX-101, Arera Colony, Bhopal.</td>
<td>2465550</td>
</tr>
<tr>
<td>8.</td>
<td>Environmental Deprt.</td>
<td>E-5, Arera Colony, Bhopal.</td>
<td>2464318, 2467154</td>
</tr>
<tr>
<td>9.</td>
<td>Railway Enquiry</td>
<td>Bhopal</td>
<td>131</td>
</tr>
</tbody>
</table>
VERIFICATION

The information furnished in the documents on the subject has been verified by me by signing each page and its submitted seeking modification / suggestions from your office to make the document viable. I also assure that I will immediately review and amend the documents and seek your consent before any change in the plant, machinery, building, structure, substances, storage, and manufacturing process us intended or otherwise after atleast every period of twenty four months from this date until the factory (for any reason) is not closed for ever. In later case it will be ours liability to inform closure of the factory to your office and dispose of all hazardous substance / material of the factory in such a manner rendering those safe for the life and environment.