|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **UNDERWRITING SURVEY REPORT** | | | | | | | | | | |
| **1. Insured Name:** | | Click to enter text | | | | | | | | |
| **2. Occupancy:** | | Click to enter text | | | | | | | | |
| **3. Surveyed Premises:** | | Click to enter text | | | **4. Ownership:** | | Owner | | | |
| **5. Address:** | | Click to enter text | | | | | | | | |
| **6. Latitude, Longitude:** | | Click here to enter text | | | | | | | | |
| **7. Survey Date:** | |  | | | **8. Surveyed By:** | | Choose an item. | | | |
| **9. Survey Result:** | | Average | | | Choose a position | | | | | |
| *After the site survey is conducted, risk is assessed as follows:* | | | | | | | | | | |
|  | **Management** | Excellent | Good | Average | | Marginal | | Poor |
|  | **Construction** | Excellent | Good | Average | | Marginal | | Poor |
|  | **Occupancy** | Excellent | Good | Average | | Marginal | | Poor |
|  | **Protection** | Excellent | Good | Average | | Marginal | | Poor |
|  | **Exposure** | Excellent | Good | Average | | Marginal | | Poor |
|  | **Natural Hazards** | Excellent | Good | Average | | Marginal | | Poor |
|  | **Loss History** | Excellent | Good | Average | | Marginal | | Poor |
|  |  |  |  |  | |  | |  |
| **10. Risk Engineer’s Opinion:** | | | | | | | | | |
| This report bases on checking necessary document, interviewing person in charge and investigation for utility areas. We did also inspect inside the office and look at directly to the production areas, warehouses through tempered glasses that the plant use for it industrial processes to provide overall assessment.  …………………………………………  Besides that, grounding wire, electrical dust-tight are also provided in this area. It was also under maintained periodically as their plan so the fire risk here was controlled.  **In general, the risk was assessed as Average.** | | | | | | | | | |

【Management】

Overall, we highly appreciate the management in the factory. The insured cares about fire protection system as well as in general operation. Smoking is banned totally on site and smoking regulation or warning signs were …………….

In the safety organization aspect, there is occupational safety committee. The participant of this group is OHS officer network, including 36 members, ……………………………….

There are 10 security guards in total who are assigned ……………………………

Because of floor marking and cleaning was conducted every day at the workplace, housekeeping at the factory was assessed at a good level. ……………………………….

* Earth resistance inspection minutes is in of date, until …………………
* Fire drill and training section has been conducted, …………………
* The written approval and acceptance of the fire protection of fire department…………
* Self-inspection minutes which run monthly by EHS team………
* Safety inspection of fire department with no serious recommendations……………
* The decision on establishment of fire prevention and firefighting team, including 35 members………….

【Construction】

Construction area: …………….. m2.

The building consists of 1 main building, including ……………………… The building mainly constructed of non-combustible materials.



[ General layout of the factory]

The detail construction information as below.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Building Name** | | **Factory and office** | **X 2** | **X3** | **X4** |
| **Number of Stories** | |  |  |  |  |
| **Area (m2)** | |  |  |  |  |
| **Height (m)** | |  |  |  |  |
| **Year Built** | |  |  |  |  |
| **Elevation above ground level (m)** | |  |  |  |  |
| **Structure of**  **Buildings** | Pillars |  |  |  |  |
| Walls | Brick, fireproof rockwool panel | Brick | Brick | Brick |
| Roofs | Corrugated steel sheets | Concrete | Concrete | Concrete |
| Floors | Concrete | Concrete | Concrete | Concrete |
| **Occupancy** | | Production process and office | Laboratory | Boiler, Air compressor | Canteen, |

The building was built in 2020, so that it is now quite new and in good condition. There is no damage pillars or water leakage on the roof at the survey time.

…………………………………………

There is PLG tank which places near loading dock with the distance of around 20m from the factory……………………

【Occupancy】

Products from the factory is pepper with the output of around xxxxxxxx tons/year. The main process of this can be briefly described as below:

xxxxxxxx

xxxxxxx

xxxxxxxxxxx

xxxxxxxxxxxxx

xxxxxxxxx

xxxxxxxxx

As previous mention, the fire and explosion risk of this occupancy could name griding process where ……………. These items were grounding, installed dust collection system to prevent this hazard.

……………………………

Currently,…………….

During the survey time, we checked some critical occupancy which listed out below:

* *Security rooms:*

There are two security rooms, at the gate No.1 and No.2. Fire control panel and CCTV system are being here. The emergency response and contact chart were assigned to put here for easy and quick approach. Three camera points could not work and received the signal. We did discuss with the person in charge to fix it.

* *Chemical warehouse:*

600 litters of Ethanol and 100 litters of Toluene were stored inside………………………..

* *Industrial waste and hazardous storage:*

We observed that there was no automatic fire alarm system in both two rooms ……………………

* *Forklift charging area:*

Currently, this workshop was not being used to charge forklift instead temporarily storge stuffs…………………

* *Electrical room:*

The room was quite clean. All main electrical cabinets were being here, and electrical wire ………………………

* *Air compressor and generator:*

Two air compressors are inside, the air receiver tank stood at 6 bars. This equipment has been gotten the safe……………

* *Boiler room:*

Fire tube steam boiler with the capacity ……………… installed in this workshop and did recommend client to equip it.

* *Fire pump room:*

The room was kept clean and equipped with the automatic……………………………………..

* *LPG tank:*

It places near loading dock with the distance of around 20m. ……………………………..

【Protection】

Fire protection system at the facility includes the following distribution of firefighting systems/ equipment:

|  |  |  |
| --- | --- | --- |
| **Firefighting equipment** | **Availability** | **Cover areas/ Remarks** |
| Sprinkler system | Yes | The system was equipped to cover the office, factory, utility areas. |
| Hydrants | Yes | Inside and outside of the factory to cover all of area, following the design of fire department. |
| Fire alarm system | Yes | Smoke, heat detectors. …………… |
| Manual break-glass call points. | Yes | Fire alarm push buttons inside the factory. |
| Portable extinguishers | Yes | 124-Dry-powder, 133-CO2 types which were arranged …………… |
| Fire pumps | Yes | A set of Jockey, Duty and Stand-by pumps supporting hydrants. At the time of the survey, electric and jockey pumps were at the Automatic mode. |
| Firefighting water | Yes | Underground tank with capacity of ……………… |
| Fire Annunciator Panel | Yes | Fire alarm control panels were in ……………….. |

Specification of the pumps is as below:

|  |  |
| --- | --- |
| **Fire pump** | **Capacity** |
| Electric pump | SPP pump, 150HP; Q=400 (m3/h), H= 80m |
| Diesel pump | Clarke, 175HP; Q=400 (m3/h), H= 80m |
| Jockey pump | Euroflo, 2.2 KW; Q=5 (m3/h), H= 85m |

【Exposure】

The separation distances from boundary fences between the insured premises and its immediate neighboring plants are summarized as follows:

|  |  |  |  |
| --- | --- | --- | --- |
| **XXXXXX - Factory** | East | No.1 Street | <20 |
| South | No.2 Street | >30 |
| West | No.03 Street | Front of the factory |
| North | Vacant land | Adjacent |

During observation, we also saw that the internal road is large, fire truck can work easily when needed…………………………...

【Natural Hazard】

Natural hazard in this area is recorded as follows:



**11. Loss History**

There is no loss history related to fire, flood, stolen or lighting recorded at the factory.

**SITE PICTURES**

|  |  |
| --- | --- |
|  | LPG tank. Safety valves, firefighting system were provided. |
|  |  |
|  | Fire hose cabinet and hydrant outside the factory. |
|  |  |
|  | Fire hose cabinet, fire alarm bell, and push button in the office |

**END.**