



# DridhG Security International Private Limited

Presence: Delhi NCR, Mumbai, Bangalore, Chennai, Kolkata & Chandigarh

Existing Threat of Climate Change in South East Asia

Date: 15 July 2023

**Prepared for:**  
Circulation

**Prepared by:**  
Garima Goswamy  
Dridhg Security International Private Limited  
Phone: +91-0-9910772955  
Email: [garima@dridhg.com](mailto:garima@dridhg.com)

Registered Office: DridhG Security International Private Limited  
House No-30 Kh. No 137/3/1 Old-1117, 3rd Floor Street No. Nehru Gali Blk-A-2,  
Sant Nagar Burari, Delhi-11008  
CIN: U80200DL2023PTC414966 | GST Number: 07AAKCD0603M1ZP



Date: 15 July 2023

The developments in the recent past in South East Asia due to inclement weather conditions are proof of the fact that climate change is not an anticipated threat but an existing one. As per a rapid attribution analysis, the record humid heat wave that hit east and North India, Bangladesh, Laos, and Thailand in April 2023 were made at least 30 times more likely due to climate change.

As per the Asia Pacific Disaster Report 2021, in Brunei Darussalam, Laos, Malaysia, Myanmar, Philippines, Timor-Leste and Vietnam, the population exposed to drought and related risks is likely to rise by 2 to 9 percent.



## India

In the past few years, India has seen an extreme rise in temperature, rainfall events, droughts and more intense cyclones besides other changes in the monsoon system. Between 1901 and 2018, India's average temperature has risen by 0.7 Celsius. As per an official assessment on climate change over the Indian region, in the worst case scenario, the average surface tempratures over India could increase by upto 4.4 degrees Celsius by 2100. The report further states that the monsoon rainfall could change by an average of 14 percent by the same year.

The temperature rise will trigger melting of glaciers and precipitation change. Increase in the number of days of heatwaves are anticipated in Rajasthan, Delhi, Gujarat, Telangana and Andhra Pradesh. North-western India might see a rise in rainfall and rainfall levels are likely to decrease in Arunachal Pradesh, Sikkim and Andaman and Nicobar.



This is the situation in Delhi around Red Fort on 13 July 2023



### **Laos**

For two consecutive days in May 2023, Laos topped out at 43.5 degrees Celsius. As per a trend analysis of a thirty year period (1990 - 2020), as published by a United Nations and Lao's Ministry of Natural Resources and Environment, there has been a slighter drier climate in Laos. Days where the temperature increased beyond 40 degrees Celsius started to appear in 2019. In a four day period in April 2023, Laos recorded "deadly" heat index of over 54 degrees Celsius.

### **Singapore**

According to official data published in 2019, over the past 60 years, Singapore has been heating up twice as fast as the rest of the world. By 2100, maximum daily temperature could reach as high as 37 degrees Celsius. By 2100, a temperature increase of 1.4 to 4.6 degree Celsius and a rise of sea level by 1 meter is forecasted. Singapore is also vulnerable to global food supply and prices. This is because the country imports nearly 90% food.

### **Malaysia**

Starting June 2023, Malaysia is experiencing El Nino phenomenon. Warmer and drier weather is anticipated till October 2023. The UV Index is estimated to be from three to seven (moderate) in cloudy conditions and 11 to 14 (extreme) in dry conditions. A study predicts that Malaysia will become hotter with an average temperature increase per month of 1.5 degrees Celsius by 2050. By 2100, it is possible that the sea level will increase by 15 to 95 cm threatening the population near the coastal regions.

### **Thailand**

Thailand saw its hottest day in history on April 14 this year at 45.4 degrees Celsius. Thailand will be at higher risk with 14 percent of its population being exposed to drought in the worst case scenario.

### **Vietnam**

Vietnam's all-time record was broken in early May 2023 with temperature as high as 44.2 degrees Celsius.



### **Impact on Health**

Climate change in South East Asia has added to humidity in addition to increasing the temperature. This makes it hard for the body to cool off. People in these countries have the risk of heat exhaustion and heat strokes can also be life threatening. More vulnerable are individuals with kidney problems, heart diseases and pregnant women.

Due to surrounding humidity, a body is likely to sweat. But as the sweat won't evaporate in high humidity, there can be chances of severe dehydration. In acute cases, it can lead to fatalities upon heat stroke.

### **Way Forward**

The UN framework convention on climate change has set a framework for governments to address climate change. It is based on the principle of common but differentiated responsibilities and respective capabilities keeping in mind different national circumstances.

Countries should try to reduce emissions or aim, like Singapore for net zero emissions by a target year. Catalysing business transformation, investing in low carbon technologies, switching to electric cars, adopting low carbon practices and pursuing effective international cooperation are recommendations to mitigate the persistent risk.



# Risk Intelligence

1. To avoid disruption to business continuity, we provide businesses:

- Early Warning Signs
- Risk Notifications
- Predictive Risk Analysis
- Situational Reports



2. Post conducting a site survey, we prepare Risk Reports

Level 1: Checklist based risk audits

Level 2: Threat, Vulnerability and Risk Assessment

Level 3: Security Risk Assessment

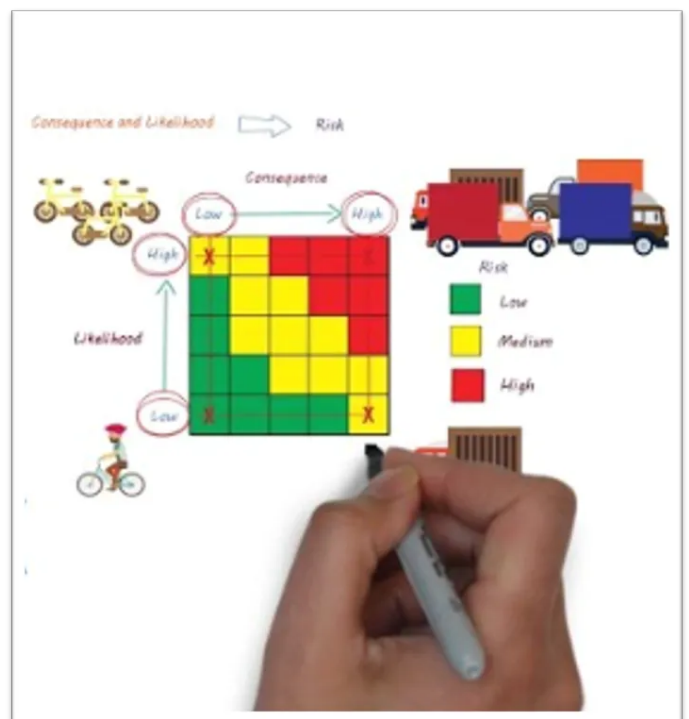
We are proficient in different standards such as ISO27001, API780, AS/NZS 4360:2004

3. Drafting Standard Operating Procedures as per best industry practices or editing or reviewing existing protocol documents

4. Impact Analysis of

- Ease of Doing Business
- Geopolitics

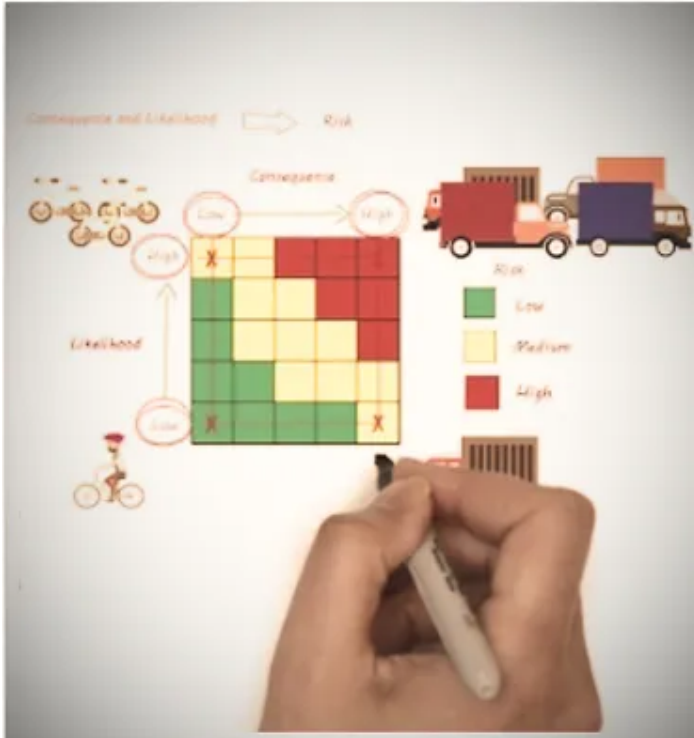
5. Offer customized solutions based on a specific client requirement







## What All Do We Do?



Dridhg Security International Private Limited offers risk consulting services including risk intelligence solutions, mystery shopping, event security, classroom and practical training sessions for knowledge enhancement and designs Environment, Health and Safety (EHS) programs. This includes mental wellness support, incident management, and fire safety.

We have successfully partnered with experts in the field of security and risk consulting. We have the knowledge, expertise, and skills required to help you meet your business objectives and can ensure a safe working environment for your employees.

**END OF DOCUMENT**