

CONCEPT NOTE

1. INTRODUCTION

Industries are complex system, it involves number of Chemicals, Equipment's, Processes etc. which could be hazardous in natures. Some of the Chemicals are highly toxic, highly flammable and highly reactive. Today, everyone is striving for Manufacturing excellence, safe environment and maximum profitable operations.

Considering this, Gujarat which is one of the leading industrialised state in India, is known for its large concentration of Chemical industries, particularly in a stretch of 400 kms from Ahmedabad to Vapi, known as 'Golden Corridor'. In Bharuch district, Ankleshwar situated on the Narmada estuary, is Asia's largest chemical zone.

The growth of Industries has led to an increase in the risk of occurrence of incidents associated with hazardous chemicals and industrial safety. Amidst the ongoing pandemic, the risk has been increased dramatically. The occupational health and safety at the workplace is become the major concern. There is a visible gap in understanding and addressing this issue. Gujarat Institute of Disaster Management (GIDM) as a state-of-the-art premier institute for training, education and research related to disaster management we can address this existing concern by organizing a series of webinar which allow in-depth understanding of the issues related to industries.

2. Need for CIDRM

As mentioned before, State of Gujarat has widespread of industries and it shares major part in economic growth and development of the state. But the contemporary development paradigm, marked by recklessness and indiscriminate use of Nature, gives rise to abnormal growth which ultimately invites the disasters. To avoid disasters one need have deepen understanding of existing and future risks, which can be mitigated through adequate measures.

In Gujarat state, Director Industrial Safety and Health (DISH) has identified **10,584 as "Hazardous factories" out of 43,271 registered factories across the state**. These hazardous factories are also categorised on the basis of chemical sub type Type A, Type B, Type C and 2cb (Section 2(cb) in The Factories Act, 1948, which involves hazardous process) along with MAH. Units where chemical quantities handled are below the threshold quantity for MAH units as mentioned above are known to be Type 'A' industries. Those handling of hazardous solvents and highly inflammable liquids are known to be Type 'B' industries, and much less hazardous industries are known as 'Type C'. Such extensive Chemical & Industrial Profile exposed to more risk and increases the vulnerability of the state.

3. ACTION PLAN

Since, we are able to identify the need of the CIDRM across the state, a systematic and holistic approach to cater the desired need may reduce the existing gaps. A good mixture of Science, Engineering, Technology & Innovation (SETI) for Disaster Risk Reduction may play vital role in the CIDRM field of Gujarat. Industries mostly works in a secluded

way, few of them may have updated technologies for identifying and mitigating the risks, but it need to be shared with others for effectiveness of those technologies.

In above context, as a kick-start GIDM in association with Director, Industrial Safety & Health (DISH) and Bharuch Disaster Management Association (BDMA) is organising series of following Virtual Classroom Training (VCT) programs with Industries Association. Targeted participants would be Health & Safety Executive (HSE), Safety Officer and all the concerned officers related to safety of the industries.

About BDMA:

Bharuch District Management Association (BDMA), established in 1982, is a Local Management Association (LMA) affiliated to its apex body, All India Management Association (AIMA). BDMA caters to varied training needs of all industry segments, Professionals, Individuals, Students and Women through a range of programs.

BDMA has attracted various industries, business houses and professionals to be its members and is engaged in organizing various developmental programs for diverse sectors. Different forums of BDMA keep the people of Bharuch District updated on the latest management trends & issues.

Although, in GIDM we do follow holistic approach by conducting residential programs, but in constraints of COVID-19 we may conduct a series of webinars with optimizing available resources. The discussion of these webinars may documented and this could be asset towards our residential programs whenever it resumes with due permissions. The Second Virtual Classroom Training is organised on **11.02.2022** is as follows:

VCT 2: Unravelling the effects of Cyclone to the Industries

Over the last few years, unusual activity in the Arabian Sea is being observed. The oceanic basin to the west of the Indian sub-continent which usually sees low-intensity cyclonic activity has suddenly turned into a hotspot of sorts, churning out severe cyclonic storms one after the other. Not only there is growing formation of cyclones in the Arabian Sea, these storms have also been increasingly severe in intensity. The cyclone pattern from the last few years suggest that the Arabian Sea also started receiving tropical cyclones of high intensity in a small time interval. For instance, in 15 years (1998 to 2013), five extremely severe cyclones originated in the Sea. In above context, Gujarat who has 1,596 km long coastline, and no part of the state is more than 160 km from the sea, faces the cyclone regularly. Recent cyclone Tauktae underlined the vulnerability of the coastal area of Gujarat. The industries, has also faced the unparalleled consequences of the Cyclones. Considering this, VCT is organised to address the above mentioned concern.