

Training cum Workshop
on
**Urban Risk Reduction and Resilience:
Focus on Earth Moving Machines during
Disaster Response & Relief Work**
Date: 19-20 January, 2024



Organised by



**Gujarat Institute of
Disaster Management**

Urban Risk Reduction and Resilience: Focus on Disaster Response & Relief Work

Background

Imagine a situation like Bhuj Earthquake 2001 or Turkey Earthquake 2023. One can see the collapsed buildings, bridges, broken roads, poles, etc. People get trapped into the debris and efforts are being made to reach the site and evacuate the survivors as many as possible. But the problem is debris generated due to the hazard and its wide variety like vegetative debris, household hazardous waste, metal debris, white goods, vehicles, damaged building materials and damaged contents, etc. Here comes the role of earthmoving machines/ heavy machinery to remove the building rubble, break big chunks of walls, road cleaning and other related operations. The integration of heavy machines in disaster management and humanitarian operations has proven to be highly effective and versatile. These machines have played a crucial role in aspects including disaster response, relief, and recovery efforts.

Rationale

This training program is organised considering the practical experiences during disaster especially in disaster relief and response. Many of the departments, municipal corporations and municipalities have earth moving and construction machines for their usage. In order to optimise their usage during disasters, GIDM has created a platform to spread awareness about the utilisation of these heavy machinery during the critical situations. After this capacity building initiative, participants will feel confident and will act appropriately to handle the situation.

Case Study: Cyclone Biparjoy (2023) – Gujarat, India

Recently, during the Cyclone Biporjoy in 2023, JCB excavators and other earthmoving machines were swiftly deployed to clear uprooted trees and blocked roads caused by heavy rainfall. The state government prioritized mobility and evacuation efforts, and 382 JCBs were pre-deployed in cyclone-prone districts (Roads & Buildings Dept. SEOC, 2023). In Kutch district, 161 JCBs were used for various tasks, including tree removal, road clearance, and loading transformers, ensuring effective disaster response and mitigation.



Source: District Collector Office, Kutch

Organisers

- **Gujarat Institute of Disaster Management (GIDM):** GIDM has been entrusted with the responsibility of Human Resource Development, Capacity Building, Training, Research and Documentation in the field of Disaster Risk Management (DRM). GIDM, through its capacity building programs, is fostering the concept of Risk Informed Planning and Disaster Resilient Sustainable Development.
- **JCB India:** JCB India Limited, a subsidiary of JCB Bamford Excavator Limited, manufactures an extensive range of over 275 equipment models. Having established its presence in India three decades ago, JCB witnessed a remarkable milestone in 2007 when India surpassed the UK as its largest market, achieving sales of more than 17,000 machines, a substantial increase from 10,800 in 2006. Currently, JCB enjoys a considerable market share in India, with an impressive fleet of about 37,120 units sold in 2022.

Objectives

The overall objectives of the training programme are:

- To update the application of earth moving machines (JCB) in Disaster Relief Work
- To understand basics of disaster risk management
- To get familiarise with different aspect of Water, Sanitation and Hygiene (WASH) during emergencies
- To know about dignified dead body management

Course Pedagogy

The training course would be offered in a professional and innovative manner. Conducive conditions will be created for the participants to engage in meaningful dialogues and discourses on the course content. The training will be held in person, facilitated by expert trainers from the industry and academia, and joined by international guest speakers. The training will include presentations, group exercises, discussions, and field visits. The course is designed in such a way that participants will be able to link with the issues of disaster response with disaster management.

Target Participants

- Practitioners like Engineers, Town Planners, Architects from Municipal Corporations, Roads and Buildings Department, Urban Development Urban Housing Department, Sardar Sarovar Nigam Limited and, Narmada, Water Resources, Water Supply and Kalpsar Department.
- Batch Strength 30-40

Location/Venue

- **Gujarat Institute of Disaster Management (GIDM)**, B/h Pandit Deendayal Energy University, Koba-Gandhinagar Highway, Raisan Village, Gandhinagar - 382007 Gujarat (INDIA) | Ph.: (079) 23275801 | Fax: (079) 23275814
- Date: January 19-20, 2024 (two days)
- Time: 9.30 am (reporting) to 5.30 pm

Mode of Training

- Residential: There is no fee charge for accommodation and food. The nominating agency has to bear the expense of travelling.

Course Coordinator

- **Shubham M. Daberao, Research Associate & Program Co-ordinator**
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