



KONE provides innovative and eco-efficient solutions for elevators, escalators and automatic building doors. We support our customers every step of the way; from design, manufacturing and installation to maintenance and modernization. KONE is a global leader in helping our customers manage the smooth flow of people and goods throughout their buildings.

Our commitment to customers is present in all KONE solutions. This makes us a reliable partner throughout the life cycle of the building. We challenge the conventional wisdom of the industry. We are fast, flexible, and we have a well-deserved reputation as a technology leader, with such innovations as KONE MonoSpace®, KONE MaxiSpace™, and KONE InnoTrack™. You can experience these innovations in architectural landmarks such as Capital City in Moscow, Hongqiao Transport Hub in Shanghai, North LaSalle in Chicago and Tour First in Paris. KONE employs on average 43,000 dedicated experts to serve you globally and locally in over 50 countries.

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Dedicated to People Flow™



# Modernizing vertical travel at a famous landmark

BUILDING SEGMENT: SPECIAL PUBLIC BUILDINGS



## Advancing elevator experiences at crowded public spaces

**M**oving large numbers of people within public places, especially in India, continues to be a challenge to elevator solution providers.

A global leader in providing vertical travel solutions for public utilities across the world, KONE meets the challenge by setting the highest standards not only for itself, but also for the industry.

With its stress on Safety, Performance & Eco-efficiency, KONE combines cutting edge technology with thoughtful design to present the best vertical travel experiences for its users and prolonged peace of mind for its customers.

Millions of people all over India, across airports, malls, metro stations, government offices and a variety of public installations, use KONE solutions to reach their destinations on a daily basis. Safely, smoothly and on time.

### Delhi Metro Rail Organization

KONE transports thousands of commuters every minute in and out of the metro stations in the Nation's capital city, winning the trust of the public and the authorities. KONE's solutions are used by passengers in the 142 stations of phases I & II with further installations in phase III.

### Mumbai International Airport

As a first in Asia, KONE has installed two InnoTrack autowalks at the Mumbai International Airport, employing the world's flattest autowalk technology.



# Madras Lighthouse

Chennai



## A modern experience at the Madras Lighthouse

One of the world's few and India's only lighthouse to have an electric elevator, the iconic structure of Chennai was closed to the public for safety concerns a long time back.

When the Directorate of Lighthouses and Lightships under the Ministry of Shipping decided to reopen the lighthouse for the public, replacement of the old elevator was a major factor in the facelift of the structure.

**Considering the expertise in providing safe & efficient solutions for public utilities such as the Delhi Metro, KONE was awarded the Elevator Modernization project of the lighthouse.**

After indepth study of public behavior and technical analysis of potential people traffic situations, the KONE Team commenced work. As the date for the inauguration had been fixed, the project was executed on a war footing.



Within four days of the opening, the heavy duty full body stainless steel elevator had carried 10,000 people. Today, the elevator ferries an average of 2000 people every day for an exhilarating view of the Bay of Bengal and the Marina beach from the top of the lighthouse.





## The Madras Lighthouse

Height	46 metres (150.0 ft)
Focal height	57 metres (187 ft) above MSL
Intensity	110V 3000W Incandescent Lamp
Range	28 nautical miles (52 km; 32 mi)
Characteristic	Two white flashes every 10 seconds



Opening to a rousing reception after 22 years, the Madras Lighthouse is now fitted with a KONE MiniSpace™ gearless elevator. It is the country's only functioning lighthouse to be located within city limits and the only one in India to have an electric elevator.

The Madras Lighthouse faces the Bay of Bengal on the east coast of the Indian sub continent. The imposing triangular red and white band structure overlooks the entire stretch of the Marina beach, a major tourist attraction and the second longest beach in the world.

The lighthouse also houses the meteorological department and has a museum attached to it.





## Meeting an unique challenge

Fulfilling stringent schedule requirements, the KONE Team, with thorough planning and project management completed the entire installation process, including the dismantling of the old elevator in 28 days, handing over the elevator 10 days ahead of the inauguration.

As the entrance walls of the structure had to be retained, the car door panels were customized to fit in the existing walls. Customized programming was done to guide the elevator stops on specified floors. To speed up the process, KONE also undertook the role of turnkey for the civil works and modification.

### Meticulous planning & execution

In spite of the time constraint, exhaustive and accurate building survey was done ahead of the execution. Trained teams from KONE conducted detailed analysis of the structure. A master plan was drawn out anticipating operational challenges and the KONE production, engineering & technical teams worked in perfect coordination to overcome the hurdles, completing the project before the deadline.





**H**eavy Duty MiniSpace™ Gearless Machine has replaced the old elevator, offering safe and comfortable rides for the public.



**F**or enhanced passenger safety, the vandal proof car has been fitted with Emergency Rescue Device, Intercom and Lift Announcement System.



**E**nergy savings is an important factor of the Modernization. KONE's highly eco-efficient EcoDisc® powers the elevator and as the elevator is in constant use, KONE has installed a regenerative drive that recovers upto 50% of the energy consumed.



**Project Summary**  
 Madras Lighthouse, Marina Beach, Chennai  
 Fully functioning lighthouse open for the public with meteorological department

- KONE Modernization Solution**
- Full Replacement Solution with KONE MiniSpace™ gearless elevator
  - Energy Saving Regenerative Drive
  - Emergency Rescue Device
  - Lift Announcement System
- |          |            |
|----------|------------|
| Travel   | 40 metres  |
| Speed    | 1.5 mps    |
| Capacity | 13 persons |