

## Script

House – The most fundamental need for organisms. A simple nest or a complex anthill... the needs vary. From prehistoric caves to huts, majestic palaces to magnificent concrete structures; man's quest for a better home continues...

In today's rapidly globalizing world, better infrastructure for all is no more a luxury. At the heart of this infrastructure development is - CONCRETE – the most widely used man made material! Touching lives of every human, concrete is an indispensable commodity in every nation's prosperity!

India is on a high speed growth trajectory. There is a need for around 24 million dwelling units nationally. Better roads, highways, airports, bridges, industrial structures... The demand is huge. Fortunately, the will, the investments, the developers and the resources are all coming together.

However, with every large scale industrial development comes great responsibility of judicious, efficient and smart use of resources. Besides, there's a need to manage hazards, such as safety and pollution, professionally at all levels.

Ready-mixed concrete technology is the answer to most challenges faced globally. This modern technology offers great advantages over conventional site mixing, such as higher speed of production, rapid delivery, consistent quality, savings in labour requirements, reduction in wastage and most importantly environment friendly

To keep pace with India's rapid growth, Ready Mixed Concrete Manufacturers' Association or RMCMA was established in 2002 with the conglomeration of leading ready-mixed concrete producers in India...with the vision to make ready-mixed concrete the preferred building material across the nation for sustainable development.

A typical RMC workflow includes -

- Storage area for different ingredients of concrete
- A central mixer where various ingredients are mixed
- Computerized central control room for accurate control of the entire production process
- Fleet of transit mixers that carry fresh concrete from the plant to the site
- And a central laboratory for extensive testing of ingredients and concrete.

Uncontrolled use of cement and other fine materials pollute air.

Bite read out by narrator - "Earlier I used to mix concrete at a site. My hands used burn. I used to have respiratory problems. With these technologies things are better."

Unlike site mixed methods, RMC plants adopt meticulous air pollution control strategies such as 20feet peripheral barricades with extended synthetic nets. RMCMA member companies are mandated to receive cement and powdered materials to their plants only in closed bulkers.

All cement and powders are loaded in silos pneumatically with no spillage or dust emission into the atmosphere. These powdered materials are conveyed from silos to the mixer through closed & pollution-free screw conveyors. Moreover, this process saves huge time.

In rare occasions, when bulker cement is unavailable, RMC manufacturers do use bag cement, however, in a closed shed, equipped with dust collection system.

Silos are fitted with dust filters at the top or bottom with pressure release valves. These filters are cleaned periodically under routine maintenance.

Different sizes of aggregates are stored in separate storage bins. Water sprinklers fitted in these bins continuously rotate and sprinkle water on the stored aggregates to suppress dust. This also lowers the surface temperature of the aggregates.

Aggregates from the storage bins are also moved to the mixer through closed & pollution-free conveyors. Conveyor-ends that discharge aggregates into the hopper are covered with tin cladding and flexible plastic sheet to minimize dust emission.

The aggregate hopper is also covered. All ingredients of concrete are finally introduced into the mixer and blended thoroughly.

The mixer is covered and fitted with a filter to contain dust.

The tyres of the loaded transit mixer trucks are washed thoroughly before they are off to construction sites.

Wet concrete perishes, if not used within 2 to 3 hours of production. Consequently, ready-mixed concrete plants ought to be located in proximity of all construction sites within a radius approximately 7 kilometres.

RMCMA member companies on their part are committed to make their operations environment friendly. Trees are planted in the production sites to further contain pollution.

Unpaved surfaces are responsible for dust generation in an RMC plant. Concreting the entire vehicular area in an RMC plant is an additional feature RMCMA member companies practice to contain dust generation.

The member companies strive to comply with high standards of health, safety and environment policies. Periodic training is imparted to people on various HSQE practices. Thus, adhering to stringent safety standards with the goal of zero work related accidents.

Inspired by the nation's vision for rapid and quality infrastructure development for the prosperity of all its citizens, RMCMA imbibes the spirit of adopting best ethical practices, superseding all benchmarks of quality, backed with strong commitment and mutual co-operation for all its member companies.

Ready Mixed Concrete Manufacturers' Association

Tagline - Making ready-mixed concrete the preferred building material across India.