

Lecture 1.1: History of cement invention.

Concrete Technology (DI04006011)

Civil Engineering Department

Lecture Agenda

- 1. History of cement invention.
- 2. Summary and Q&A

1.1 History of cement invention.

- Joseph Aspdin, an English bricklayer, patented Portland cement in 1824.
- It was named 'Portland' due to its resemblance to Portland stone quarried in Dorset.
- Early Roman concrete used pozzolanic ash mixed with lime to form a durable binder.
- Isaac Johnson further improved the process in 1845 by firing chalk and clay at much higher temperatures.
- The rotary kiln revolution in the 1890s allowed for continuous mass production of cement.

Summary

- Recap of the specific material properties and methods discussed.
- Always refer back to the standard IS codes for parameter limits.