

EXPERT WEBINAR ON "PAST PRESENT N FUTURE - PAVEMENT OPTIONS" BY ER. ASHWIN MOGHE

Ultratech Cement and Indian Concrete Institute - Student Chapter in collaboration with Civil Engineering Department, SKIT organized an expert session on "Past Present n Future - Pavement Options" on May 05, 2021. The session was delivered by Er. Ashwin Moghe (Vice President and Head - Technical Services Key Accounts cell of Ultratech Cement Ltd.). Students of B.Tech - Civil Engineering and M.Tech - Transportation Engineering attended the Session. In the session, the speaker told about the present technologies involved in construction of flexible and rigid pavements. He also emphasized on the ongoing research in the field of pavements which will be used in near future.

Roads & Bridges
Rigid Pavement – Construction Steps 1 Preparation of Soil Subgrade Layer

Definition: The sub-grade can be defined as a native soil compacted to withstand the loads above it or highway subgrade soil may be defined as the supporting on which pavement and its special under course rests.

- The site should be cleared off and the top soil consisting of grass, roots, rubbish and other organic matter are to be removed. After cleared the work should be set out. Before spreading the material batter pegs are marked on both sides of an embankment at intervals.
- The selected soil in the loose condition is spread to a uniform thickness using appropriate equipment over a prepared ground.
- Additional water as required is sprayed so as to obtain the OMC of the soil determine from the laboratory compaction test. The soil after added water is mixed thoroughly using appropriate equipment so that the water gets distributed in the soil layers uniform mixed soil is spread again to the uniform layer thickness by using graders.
- The soil layer is compacted by a rolling, by vibratory roller of 80 to 100KN static weight or heavy pneumatic tiered roller. The soil layer is compacted by rolling using the selected equipment so as to obtain the specify density.
- Bring the proper camber profile of the compacted surface. The process is repeated until the desired height and level of the subgrade is achieved.
- The soil subgrade is the lower most layer of the pavement structure which ultimately supports all other pavement layer and traffic loads.
- A good soil subgrade / well compacted and prepared soil subgrade gives long service life to the pavement.

Bharatmala Pariyojana

Map of India showing the Bharatmala Pariyojana network.

BHARATMALA PARIYOJANA PHASE-I	
Expressway Corridors Development	8,000 km
Inter-corridor and Feeder roads development	6,000 km
National Corridors Efficiency Improvement	5,000 km
Border and International Connectivity Roads	2,000 km
Coastal & Port Connectivity Roads	2,000 km
Greenfield Expressways	800 km
Total	24,000 km

Now viewing Er Puneet Goyal's screen

Talking: Mr Anirudh Mathur

Everyone Webcams Zoom: 73% Screenshot

ADITYA BIRLA
UltraTech

Thank You

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Talking: Mr Anirudh Mathur

Past Present & Future of Concrete - Pavem...
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