

Use of Waste & Marginal Materials and Sustainable Highway Construction

Day 1	
9.45-13:00	Green Highways & Decarbonisation of Highway Construction <ul style="list-style-type: none"> • Use of WARM Mixes • Rubber Modified Bitumen • Jute & Coir Fibres • Bio-Binders • Use Marginal Materials Carbon Rating
14:00-17:15	Use of Flyash in Embankment Construction <ul style="list-style-type: none"> ➤ MoEF Guidelines ➤ Generation of Ash in TPPs-Flyash, pond ash etc. ➤ Advantages of Flyash in Embankment ➤ Material Characteristics(Physical & Chemical) ➤ Construction Methodology (Soil Cover, Compaction, Drainage etc.) ➤ Quality Assurance, Quality Control and Acceptance ➤ Case Studies
Day 2	
9.45-11.15	Use of Flyash in Structural Concrete & PQC <ul style="list-style-type: none"> ➤ Advantages of Flyash in Concrete ➤ Material Characteristics (Physical & Chemical) ➤ Mix Design Guidelines ➤ Storing and Mixing of Flyash in Concrete Batching Plants ➤ Quality Assurance, Quality Control and Acceptance ➤ Case Studies
11.30-13.00	Use of Slag <ul style="list-style-type: none"> ➤ Types of Slag ➤ Advantages ➤ Material Characteristics (Physical & Chemical of Crushed Aggregates and Ground Granulated Blast Furnace Slag (GGBFS)) ➤ Guidelines and Construction Methods for Use of Crushed Aggregates in Pavement ➤ Mix Design Guidelines for Use of GGBFS in Concrete ➤ Storing and Mixing of GGBFS in Concrete Batching Plants ➤ Quality Assurance, Quality Control and Acceptance ➤ Case Studies
14:00- 17:15	Use of C&D Waste <ul style="list-style-type: none"> ➤ Advantages ➤ Material Characteristics ➤ Guidelines and Construction Methods for Use in Pavement and Concrete ➤ Quality Assurance, Quality Control and Acceptance ➤ Case Studies

Day 3	
9.45-13:00	Use of Waste Plastic <ul style="list-style-type: none"> ➤ Advantages ➤ Material Characteristics ➤ Mix Design Guidelines for Use of Waste Plastic in Bituminous Mixes ➤ Guidelines and Construction Methods for Use in Pavement Courses ➤ Quality Assurance, Quality Control and Acceptance ➤ Case Studies
14:00-17:15	Recycled Pavements <ul style="list-style-type: none"> ➤ Advantages ➤ Guidelines and Construction Methods <ul style="list-style-type: none"> • Hot-in-Place Recycling • Cold-in-Place Recycling • Hot-in-Plant Recycling • Cold-in-Plant Recycling ➤ Quality Assurance, Quality Control and Acceptance ➤ Case Studies
