Good construction practices

Time	Description of Topic
Period	
Day-1	
09:45-	Construction of Rigid Pavements
13:00 &	Provisions as per Section 600 of MoRT&H Specifications
14:00-	Construction of Dry Lean Cement Concrete Sub base
17:15	 Machinery and Equipments required for laying, transporting, mixing, compaction, texturing, curing, joint cutting, sealing joints etc. Methodology for mixing, laying & curing of concrete pavement Construction by Slip Form Paver & Fixed Form Paver Texturing with brooming or tinning and joint cutting/forming Details of types of joints Transverse Joint (Contraction & Expansion) Transverse Construction Joint Longitudinal Joint Tie bars and Dowel Bars Choice in construction of different types of rigid pavements Construction of cell fill pavements and specification Construction of pre cast block pavements and specification Self-compacted concrete pavements and specification Construction Practices
	Case Study
Day 2	
09:45-	Expansion Joints:-
13:00	 Type of expansion Joints & Performance Requirement Filler Joints Reinforced Elastomeric Joint Single Strip/ Box Seal Joint Modular Strip/ Box Seal Expansion Joints Asphaltic Plug Joint Compression Seal Joint Provisions as per Section 2600 of MoRT&H Specifications, IRC:SP:69 Installation of Expansion Joints Construction Practices Case Study
14:00-	Approaches to Bridges & Bearings:-
17:15	 Provisions as per Section 2000 of MoRT&H Specifications Construction Practices Case Study
Day 3	
09:45-	Reinforced Earth Retaining Structure:

13:00 &	> MoRT&H Specifications as per Section 3100
14:00-	
	> Proper methodology for Earth work compaction with flyash
17:15	> Construction of High Embankment with RE Wall by using Geo-
	synthetics / Steel strips
	Need for retaining structures
	> safe slope angles
	> Introduction to reinforced soil and RE wall
	Concept of reinforced soil embankment
	 General arrangements details, CQA Plan, provision for drainage
	Construction Practices
	Case Study
Day 4	
09:45-	Highway Drainage:-
13:00 &	Requirement and Overview of Drainage
14:00-	 Adverse Impacts of Stagnant Water on Pavement Courses
17:15	 Drainage Consideration for Roads in Rural Sections and
	Urban Sections
	 Drainage Considerations for Road in Embankment, Road
	in Cutting and Road with Hill on One Side and Valley on
	other Side
	Types of Surface and Sub-surface drains
	Drainage of Medians, At-grade Intersections, High
	Embankments and Bridge/Structures
	Drainage of Hill Roads
	Road Side Drain
	Catch-Water/Intercepting Drain
	Chute
	Sub-surface Drainage MapTGH Spacifications as par slause 200 Section 6 of IRC
	MORT&H Specifications as per clause 309, Section 6 of IRC
	:SP:84-2019, Relevant provisions as per IRC: SP:42, IRC: SP:50,
	IRC : SP: 90
	Construction Practices
Davi E	Case Study
<u>Day-5</u>	
09:45-	Appurtenances:
13:00 &	> Railings
14:00-	> Footpaths
17:15	Utilities along bridges
	> Drainage spouts
	> Crash barriers