# Concrete Road Construction



### 2 types of Construction (Manual, Slipform)

### Sequence of Construction

# Concrete Road Construction Hand Placed Vibrating Truss Screed Slipformed



# Formwork and BRC (PCP)

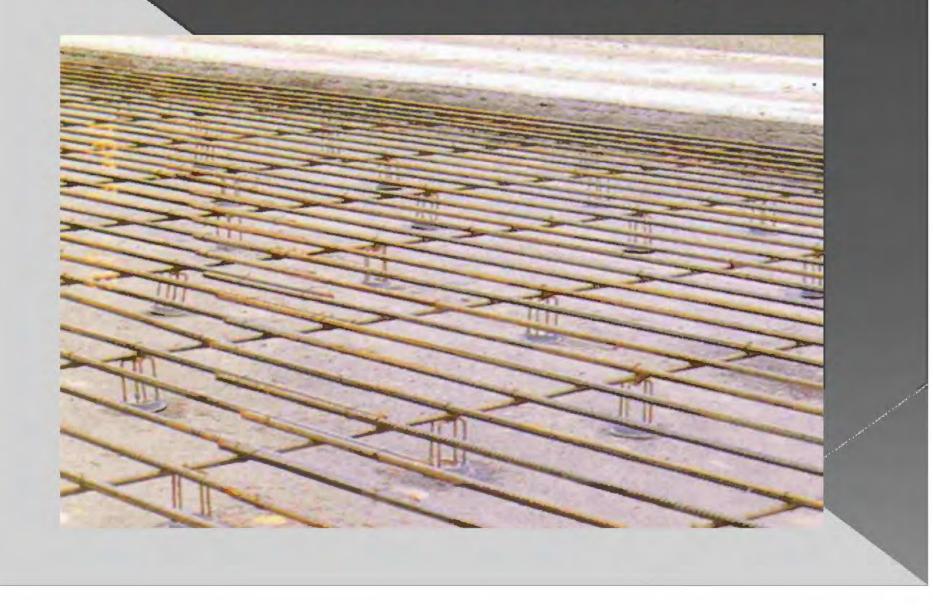


# Formwork and BRC (JRCP)

Formwork, Tied bars, BRC and Chairs in position

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# Formwork and Rebars(CRCP)



# Casting Pavement(JRCP)



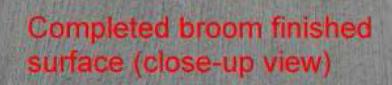
# Casting Pavement PCP (using Truss Screed)



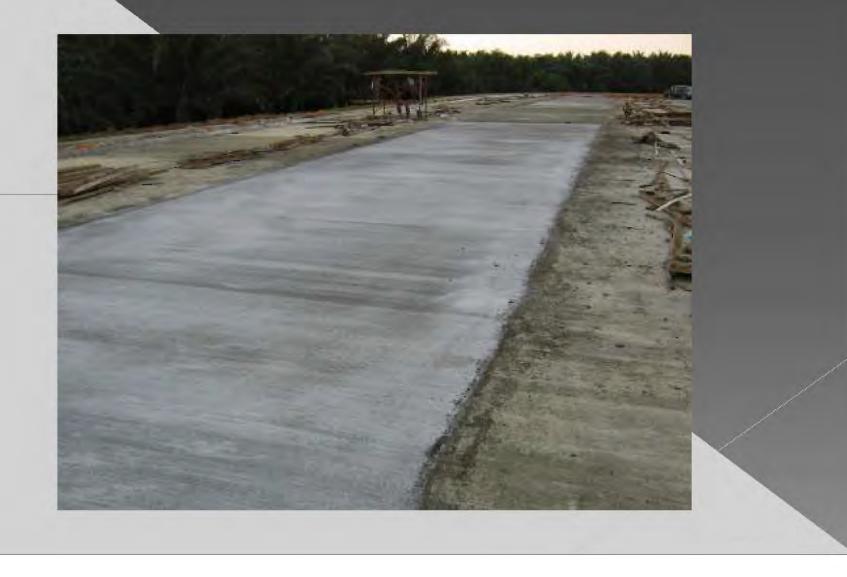
# Casting Pavement (CRCP) Using Slipform



# Finishing-Brooming (Close up view)



# Curing-Aluminized compound



# Protection



### Proof of Correct Joint Installation (see "good"crack directly below saw cut joint)









### Slipform Machines (Clockwise right: China, India, USA)



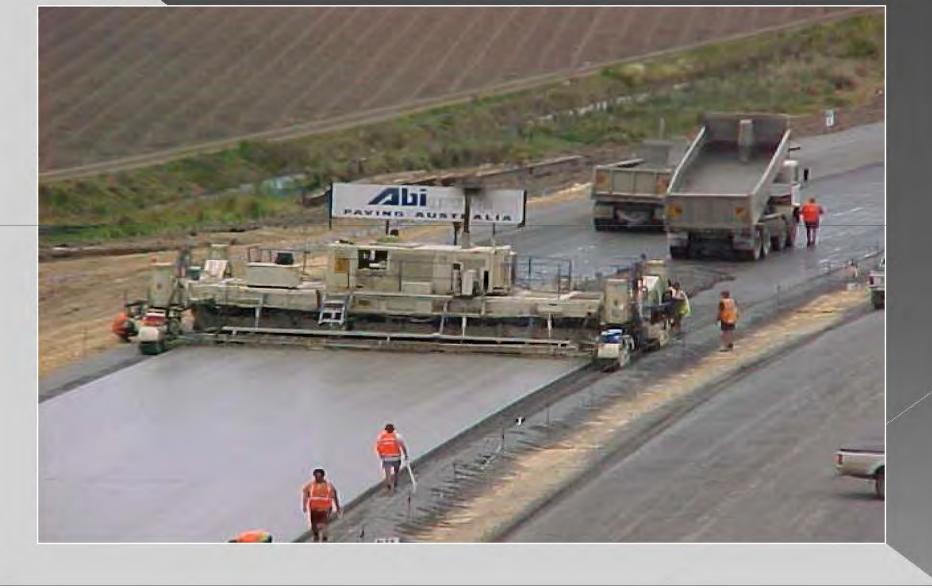


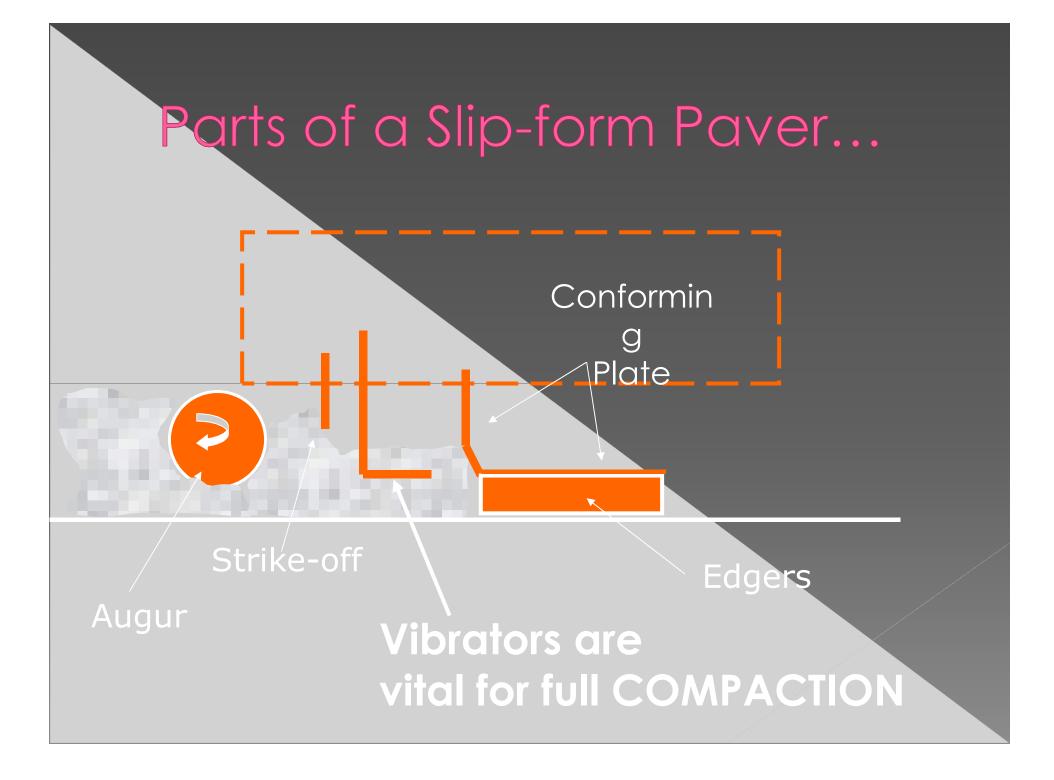


# Slipform Machines (Clockwise right: Myanmar, Philipines, Indonesia)

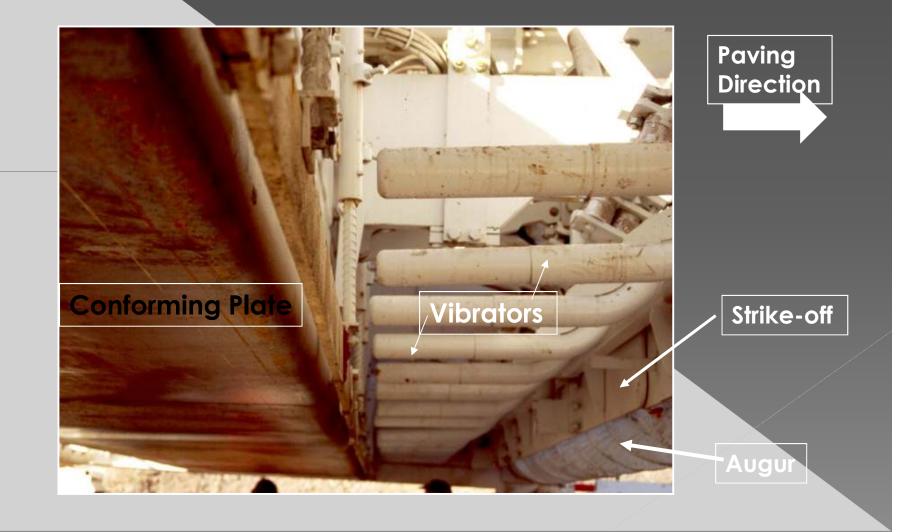


# Slip-form Paver





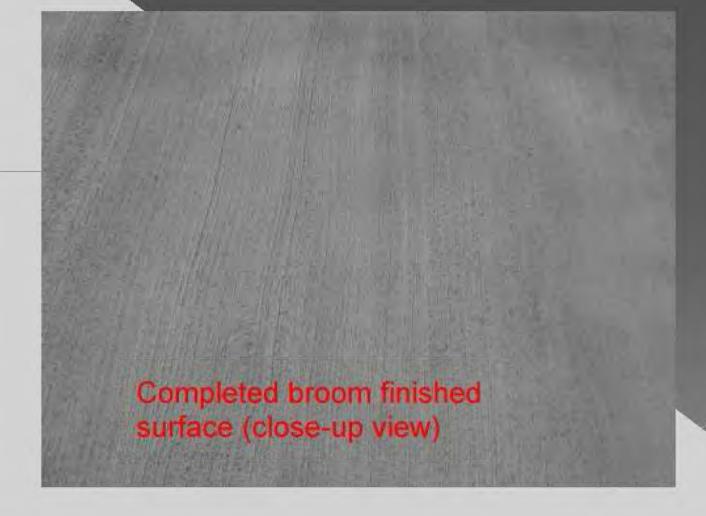
### The Vibrator spacing, frequency, amplitude and paver speed determine the degree of Compaction



### **4** Types of Texture Finish

Broom Finish
Tined Finish
Hessian drag Finish
Exposed Aggregate Finish

### Texture Finish- Broom Finish



### Texture Finish – Tined Finish



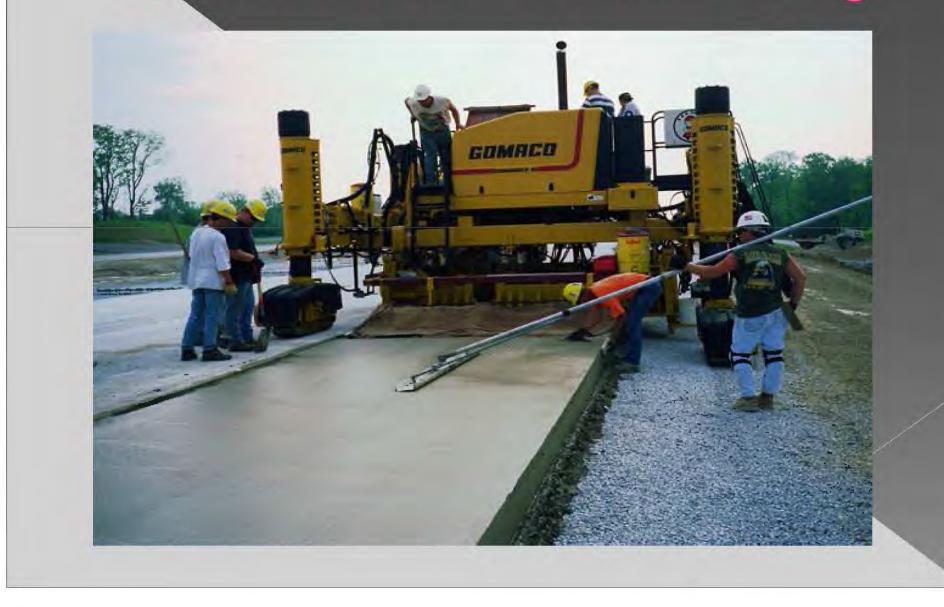
Texturing device, showing spring steel types on "broom"

# Texture Finish – Tine Finish



**Tining Completed** 

# Texture Finish – Hessian Drag



# Textured Finish – Exposed Aggregate Finish



# Concrete Testing

### Fresh Concrete

- 1. Slump Test
- 2. Fresh Density
- 3. Air Content Test

#### Hardened Concrete

- 1. Cube Test
- 2. Flexural Test
- 3. Core Test
- 4. Sand patch Test
- 5. Smoothness Test (3m straightedge, RSE, IRI)

# Video PCP Kulim Road Construction