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Vikram holds a bachelors and masters degree in civil engineering specializing in material characterization; specifically pavement and construction materials. He has been involved in research projects in the area of moisture induced damage in flexible pavements and mechanistic modeling of hot mix asphalt mixtures. For the past year he has been involved in practical application of hot mix asphalt mix design and placement, and the testing and inspection industry. His experience includes testing and inspection during construction of state and federal highways, airports, and roadways throughout northern California and southern Oregon. His responsibilities as a staff engineer include geotechnical analyses, material research and design, laboratory testing of construction materials, field observation and special inspections including soils, concrete, masonry, hot mix asphalt, and high strength bolts and bolting. He was also involved in writing and publishing research papers for international conferences and journals in the field of pavement and construction materials.

### **EDUCATION**

M.S in Civil Engineering, University of Louisiana at Lafayette, Louisiana 2007

B.S in Civil Engineering, Osmania University, Hyderabad, India 2005

### **TECHNICAL CAPABILITES**

- ◆ Materials testing and inspection
- ◆ Field observation and special inspections
- ◆ Laboratory testing of construction materials
- ◆ Hot Mix Asphalt Mixture Design
- ◆ Hot Mix Asphalt – Quality Control/Assurance

### **CERTIFICATION**

- ◆ Engineer-in-Training – California
- ◆ American Concrete Institute, Field, Grade I
- ◆ Nuclear Radiation Certification for Moisture/Density Gauges
- ◆ Caltrans Certified in the Following: 105, 106, 125AC,125AGG, 304,308, 366, 367, and 371

### **PROJECT EXPERIENCE**

#### ***Materials Testing and Inspection***

Route 99, Visalia, 2007 Street inspection and sampling

Route 33, Kettleman City, 2007 Street inspection and sampling

Oroville/Quincy FHWA, 2007 plant inspection, mix designs, and laboratory testing

Route 5, near Redding, Lakehead 2006 Street inspection and sampling

Interstate 80 near Auburn 2005 Street inspection and sampling

Gold Lake Highway 2005 Inspection and Testing on this FHWA Project

Route 5, 273, 299, Near Redding – 2005 Street inspection and sampling

Klamath Falls International Airport - 2005 inspection, sampling, and density testing

### **PROFESSIONAL PUBLICATIONS AND PRESENTATIONS**

Vikram Kyatham and Mohammad Jamal Khattak. (2008). “Visco-elastic behavior of hydrated lime modified asphalt matrix and HMA under moisture damage condition.” Journal of Transportation Research Board: Transportation Research Record 2057, National Research Council, Washington D.C., pp. 64-74.

Mohammad Jamal Khattak, Zhanping You, and Vikram Kyatham (2008). “On the Mechanical Modeling of Asphalt Matrix and Hot Mix Asphalt Mixtures.” Proceedings of ASCE 2008 International Airfield and Highway Pavement Conference, Bellevue, Washington, pp. 253-266.

Vikram Kyatham and Mohammad Jamal Khattak. (2008). “Mechanistic Characteristics of Moisture Damaged Asphalt Matrix and Hot Mix Asphalt Mixtures.” Proceedings of ASCE 2008 International Airfield and Highway Pavement Conference, Bellevue, Washington, pp. 134-146.

### **PROFESSIONAL AFFILIATIONS**

- ◆ American Society of Civil Engineers (ASCE)
- ◆ Transportation and Development Institute (T&DI)