

**NEW ENGLAND TRANSPORTATION CONSORTIUM  
QUARTERLY PROJECT PROGRESS REPORT**

**A. PROJECT NUMBER AND TITLE: NETC 13-3**

**B. PRINCIPAL INVESTIGATOR(s) & UNIVERSITY(s): Eshan V. Dave, University of New Hampshire**

**C. WEB SITE ADDRESS (If one exists):**

**D. START DATE (Per NETC Agreement): 3/27/2015**

**E. END DATE (Per NETC Agreement): 4/2/2017**

**F. ANTICIPATED COMPLETION DATE: 12/31/2016**

**G. PROJECT OBJECTIVES:**

- (1) Review of current QA process used by New England DOTs for precast and prestressed concrete elements (PCE/PSE).
- (2) Review of QA specifications for PCE/PSE.
- (3) On the basis of the review and through working with the technical review committee of the project, develop common acceptance standards for PCE/PSE to be used by NETC constituents.
- (4) Develop a cost-sharing mechanism to accompany the common acceptance standards.
- (5) Identify agencies and contractors to conduct pilot implementation of the common acceptance standards.
- (6) Develop a list of additional materials and services for which common acceptance standards might be beneficial and feasible.

**H. REPORT PERIOD: 7/1/2016 – 9/30/2016**

**I. ACCOMPLISHMENTS THIS PERIOD:**

As with the previous quarter, during substantial period of this quarter, the project amendment was under administrative processing that required researchers to stop work on the study until amendment contract was executed. During this quarter primary research effort was spent on developing two spreadsheets that provide recommendations for QA practices to be adopted by state agencies for precast and prestressed concrete elements. The spreadsheets provide recommendations for (1) plant certification; (2) sampling and testing as part of QA inspection. Each spreadsheet is set-up with four tabs. First tab provides definitions and descriptions. The other three tabs are organized to provide recommendations for following categories of the elements:

- (1) Prestressed elements
- (2) Structural precast elements
- (3) Non-structural precast elements

A detailed report to accompany these recommendations is currently being prepared and is expected to be delivered to Technical Committee by end of October.

**J. PROBLEMS ENCOUNTERED (If any):**

The no-cost extension process took substantial amount of time and prevented researchers from spending effort on this project during a portion of this quarter.

**K. TECHNOLOGY TRANSFER ACTIVITIES:**

None.

**L. STATUS BY TASK:**

**Task 1: State of the Practice Review:** Revised report was edited and finalized.

**Task 2: Development of Common Acceptance Standards for PCE/PSE:** Spreadsheets were developed for recommending common acceptance standards to be adopted by New England DOTs. Spreadsheets are attached with this quarterly report and feedback is requested from technical panel to modify/update the spreadsheets. A report with details on common acceptance standard as well as some insight on selection proposed by researchers is under development and will be submitted for review to technical panel by end of October.

**Task 3: Reporting and Technical Committee Meetings:** This quarterly report will serve as the next submission.

**M. PERCENT COMPLETION OF TOTAL PROJECT:** 80 %

**N. ACTIVITIES PLANNED FOR NEXT QUARTER:**

- Submission of the draft common acceptance standards for agencies to provide feedback
- Revision of the common acceptance standards on basis of agency feedback
- Selection of agencies and manufacturers for pilot implementation of common acceptance standards

**O. FINANCIAL STATUS:**

As of: 7/1/2016

Total Project Budget: \$ 100,000

Total Expenditures: \$ 70,800

**Note: This report should not require more than 2-3 pages & should be e-mailed to the NETC Coordinator so as to arrive no later than three (3) working days after the end of each calendar quarter.**