TRANSPORTATION POOLED FUND PROGRAM QUARTERLY PROGRESS REPORT

Date: September 30, 2020			
Lead Agency (FHWA or State DOT): _	_Indiar	na DOT	
INSTRUCTIONS: Project Managers and/or research project investigated that we have a captable and the projects are active. Proposal and the proposal; a percent ask that is defined in the proposal; a percent current status, including accomplishments and the proposal.	lease provide a centage comple	a project schedule statu etion of each task; a cor	s of the research activities tied to ncise discussion (2 or 3 sentences) of
Transportation Pooled Fund Program Project # (i.e, SPR-2(XXX), SPR-3(XXX) or TPF-5(XXX)		Transportation Pooled Fund Program - Report Period:	
		□Quarter 1 (January 1 – March 31)	
TPF 5-387		☐Quarter 2 (April 1 – June 30)	
		XQuarter 3 (July 1 – September 30)	
		□Quarter 4 (October 1 – December 31)	
Project Title: Development of an Integrated Unmanned A	Aerial Systems	s (UAS) Validation Cer	nter
Name of Project Manager(s): Tommy E. Nantung	Phone Numl (765) 463-15	ber:	E-Mail tnantung@indot.in.gov
Lead Agency Project ID:	Other Project ID (i.e., contract #):		Project Start Date: 1/1/2019
Original Project End Date: 12/31/2022	Current Project End Date: 12/31/2022		Number of Extensions: None
Project schedule status: ☐On schedule ☐ On revised schedule	☐ Ahead of	fschedule X	Behind schedule
Overall Project Statistics: Total Project Budget	Total Cost to Date for Project		Percentage of Work
Total 1 Tojoti Budgot	1310. 2001.2 2010.101.110,001		Completed to Date**
\$575,000	\$186,867		48%
Quarterly Project Statistics:			
Total Project Expenses and Percentage This Quarter	Total Amount of Funds Expended This Quarter		Total Percentage of Time Used to Date**
\$32,961	5.7%		75%

^{**}Since end date has been extended, project percentages have been updated (estimates)

Project Description:

This study proposes to develop the basic standards, protocols, and testing requirements that a given UAS must meet and demonstrate for a particular application.

Progress this quarter (includes meetings, work plan status, contract status, significant progress, etc.):

- In spite of the COVID-19 pandemic, some progress has been made regarding further development of the obstacle course, camera optic requirements, and pilot mission planning skill requirements.
- A summary report of the progress made in the past few months is attached to this QPR.

Anticipated work next quarter:

- Continue with the development of the testing protocols for UAS.
- Schedule Project Panel meeting for some time in the 3nd or 4th Quarter of 2020.

Significant Results:

1. Progress has been made regarding the development of the obstacle course, camera optic requirements, and pilot mission planning skill requirements.

Circumstance affecting project or budget. (Please describe any challenges encountered or anticipated that might affect the completion of the project within the time, scope and fiscal constraints set forth in the Agreement, along with recommended solutions to those problems).

1. The COVID-19 restrictions resulted in Purdue University shutting down entirely in Mid-march 2020. All access to laboratory facilities were halted effectively bringing all research to a standstill. In mid-June 2020, standard Operating Procedures were being developed for review by the University to begin safe operations. Bowen Laboratory and the S-BRITE Center were cleared to allow research to re-start in mid-July of 2020. Clearly, COVID has been a major impact on this and other research projects. The Research Team is working hard to try and make up for lost time due to the laboratory shut downs while still working as safely as possible and within the confines of Purdue's COVID-19 operation procedures.

Potential Implementation:

None to date