



# Professional Agreement Invoice and Progress Report

ITD 0771 (Rev. 01-17)

Idaho Transportation Department

itd.idaho.gov

**This page must be filled out monthly by the Consultant and forwarded to the Agreement Administrator with the monthly invoice. If necessary, attach additional sheets for continuation.**

Key Number	Project Number ITD RP 280	Project Name ITD-Gyratory Stability Index	Date 4/9/2019
Agreement Administrator Mike Santi	Progress Report Number EN3240-3	Agreement Number UI-19-03	
Consultant's Name		Report/Billing Period (From and To) 3/1/2019-3/31/2019	
Prompt Payment To Subconsultant(s) Verified <input type="checkbox"/> Yes <input type="checkbox"/> No	Authorization Number	Invoice Number No Invoice	
Describe Work Accomplished During the Month (List Major Activities that were in progress during this period and estimate the remaining time for each.) - The research team completed the paperwork to order a new Superpave gyratory compactor that will be used in this study. - The researchers identified and ordered other laboratory supplies needed in this project including specific gravity and Lottman apparatus. - The researchers continue working on Task 1 "Literature review" to review previous studies on the use of laboratory compaction data to determine parameters that are related to mix performance (e.g., rutting resistance) such as Gyratory Stability, Compaction Energy Index, and Total Energy Index. They also review recommendations on binder grade adjustments when using RAP in asphalt mixtures.			
Summarize Work Completed to Date (Milestones Completed and Dates) (List Major Activities that were completed, including completion dates.) Please see attached GANTT chart.			
List Information Required from ITD to Avoid Delays			
List Changes in Scope or Complexity that Requires a Supplemental Agreement or Time Adjustments			
Printed Name Emad Kassem	Title Principal Investigator	Consultant's Signature	

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## Status Report **This page must be completed by the Agreement Administrator**

A completed status report must accompany all Agreement invoices recommended for payment. The requested percentage of progress measurements for this report/billing period are required.

Key Number	Program Number ITD RP 280	Progress Report Number 3	Agreement Number UI-19-03
Agreement Time 24 months	Time Passed 3	Percent of Agreement Time Elapsed 12.50%	Percent of Work Completed 3.7%
Original Agreement Amount \$160,000.00	Supplemental(s) \$0.00	Current Agreement Amount \$160,000.00	Payments (Including this Payment) \$0.00
Percent of Agreement Dollars Paid 00.00%			
Prompt Payment To Subconsultant(s) Verified <input type="checkbox"/> Yes <input type="checkbox"/> No	<b>Fixed Fee</b>	This Invoice \$	To Date \$
Negotiated \$			
If There is a Significant Variance Between the Percentages, Please Explain			
Consultant Invoice Number No Invoice		This Payment Amount \$0.00	
Report Reviewed By			Review Date

## Consultant Performance **To Be Completed Monthly by the Agreement Administrator**

Work planned for this period was completed <input type="checkbox"/> Yes <input type="checkbox"/> No	Quality of work was completed satisfactory <input type="checkbox"/> Yes <input type="checkbox"/> No	Discussed performance with Consultant <input type="checkbox"/> Yes <input type="checkbox"/> No
Explain		
Performance: Describe the Consultants performance during this period		

**Progress Payment:** I certify that the Agreement provisions have been reviewed, the invoice amount checked, progress is substantiated, significant material expenses have support documentation (receipts), and the costs billed are project related and represent the work accomplished. I hereby approve the progress estimate for payment.

**Final Payment:** I certify that all work under the terms of the Agreement has been satisfactorily completed, any capital assets acquired have been delivered or value received, an affidavit of indebtedness received, and the project reviewed or audited and costs verified for work performed. I hereby approve final payment under the Agreement.

Agreement Administrator's Signature	Date	Second (Independent) Reviewer's Signature
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# ITD RP 280

## Development of a Gyrotory Stability Index to Evaluate Variation of I Resistance of Asphalt Mixtures

		Yr 2019												Y				
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Dec	Jan	Feb	Mar	Apr	May	
<b>Task 1</b>	Literature Review	15%	20%	25%														
<b>Task 2</b>	Development of Testing Matrix and Asphalt Mixture Preparation																	
<b>Task 3</b>	Develop Mathematical Algorithm for Calculating the GS Index																	
<b>Task 4</b>	Conduct Laboratory Performance Tests																	
<b>Task 5</b>	Develop/Modify ITD Software to Calculate GS Index																	
<b>Task 6</b>	Analyze Laboratory Test Results and Develop Recommendations for the Use of GS Index and																	
<b>Task 7</b>	Prepare Final Report																	
<b>Deliverables No.</b>								1		2			3					

