



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 262	Project Name ITD-Concrete Performance	Date 9/12/17
Agreement Administrator Clint Hoops	Progress Report Number KLK580-8	Agreement Number UI-17-02	
Consultant's Name		Report/Billing Period (From and To) 8/1/17-8/31/17	
Prompt Payment To Subconsultant(s) Verified <input type="checkbox"/> Yes <input type="checkbox"/> No	Authorization Number	Invoice Number Invoice #8	
Describe Work Accomplished During the Month (List Major Activities that were in progress during this period and estimate the remaining time for each.) Please see attached progress report			
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 Ahmed Ibrahim	Title Principal Investigator	Consultant's Signature	

Professional Agreement Invoice and Progress Report

ITD 0771 (Rev. 01-17)

Idaho Transportation Department

itd.idaho.gov

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	Progress Report Number	Agreement Number
		8	UI-17-02
Agreement Time	Time Passed	Percent of Agreement Time Elapsed	Percent of Work Completed
25 months	9	36.00%	15.8%
Original Agreement Amount	Supplemental(s)	Current Agreement Amount	Payments (Including this Payment)
\$150,000.00	\$0.00	\$150,000.00	\$37,478.24
		This Invoice	To Date
		\$	\$
Negotiated			
\$			
If There is a Significant Variance Between the Percentages, Please Explain			
Consultant Invoice Number	This Payment Amount		
#8	\$7,741.98		
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

Distribution: DRI (Original) - Project File

Copy - Prime Consultant

Progress Update of RP262: Concrete Performance in Aggressive Salt and Deicing Environments

This short report give an update of the progress of the research activities of RP262 as of September 20th, 2017 as summarized in the table below:

Deliverable	Progress Update
1. Literature Survey and Survey of Practice	Submitted
2. Field program	Postponed
3. Detailed laboratory experimental plan	Submitted
4. Mixing procedure and sample preparations	Submitted
5. Testing results	In progress (see below)

Deliverable 5 Progress

A. ITD survey results

The PIs have received only two responses from Districts 2 and 5 about the observed signs of defected structures. District 5 provided a detailed response where District 2 named couple of defected locations.

B. Concrete Mixing

It is expected to have the slab samples ready by the end of September.

C. Deicer Availability

- District 1:
Delivered: 15 gallons of Salt brine
Needed: another 10 gallons
- District 2:
Delivered: Quick Salt (2 sacks); MgCl (4 gallons)
Needed: required extra (3 sacks) of quick salt and 10 gallons MgCl
- District 3: None delivered and we need to order (3 sacks) of wet salt and (10 gallons) of Freeze guard + MgCl
- District 4:
Delivered: 6 gallons of Salt brine
Needed: another 10 gallons and 120 pounds of broken arrow.
- District 5: 10 gallons of salt brine.
- District 6: None delivered and we need 10 gallons of manufactured brine

D. Samples' Testing

- Freeze and Thaw cycles: WSU has tested 4 mixtures so far.
- Surface Resistivity: UI has tested most of the ITD Mixtures
- Wet and Dry cycles: UI has started soaking the specimens based on the available deicers.
- Resistance against Deicing Salt: 8 slab specimens have been cast at WSU and picked up to start the testing at UI.

Concrete Performance in Aggressive Salt Environments

Task No.	Task	Year	2016 /2017												2018												
		Month	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
		Elapsed Month	12	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Task 1	Literature Survey and Survey of Practice		100%	100%	100%	100%																					
Task 2	Task 2- Field program					25%	0%	0%																			
Task 3	Laboratory Experimental Design and Testing																										
a	Experimental plan design and material procurement					100%	100%																				
b	Mixing and preparing Samples						100%	100%	50%																		
c	Testing of specimens							10%	10%	10%	25%	0%	0%	0%													
Task 4	Testing of alternative mixes and Development of Recommendation																										
a	Recommendations with new concrete mixtures design													0%	0%												
b	Testing of specimens and preparation of final results														0%	0%	0%	0%	0%	0%							
Task 5	Final Report																				0%	0%	0%	0%	0%		
Task 6	Final Report																										
a	Submit report outline to ITD for review																				0%						
b	Meet with ITD to discuss outline																					0%					
c	Send draft to peer reviewer and make necessary changes																					0%					
d	Send draft to editor and make necessary changes																						0%				
e	Submit draft of required output to ITD/FHWA for review																						0%				
f	ITD/FHWA review of the draft completed (due 30 days after completion)																							0%			
g	Final output due to ITD (due 30 days after submission of review draft)																								0%	0%	
Deliverables				1			2, 3		4					5	6									7		8	9