

Grant Agreement - Replacement Pages

GRANT AGREEMENT

CEC-146 (Revised 1/2014)



RECIPIENT City of Los Angeles Harbor Department	AGREEMENT NUMBER ARV-15-069
ADDRESS 425 S. Palos Verdes Street San Pedro, CA 90731	AGREEMENT TERM 6/30/2016 to 4/30/2021 The effective date of this Agreement is either the start date or the approval date by the California Energy Commission, whichever is later. The California Energy Commission shall be the last party to sign. No work is authorized, nor shall any work begin, until on or after the effective date.

PROJECT DESCRIPTION

The parties agree to comply with the terms and conditions of the following Exhibits which are by this reference made a part of the agreement.

Exhibit A – Scope of Work	Page(s): 16
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Exhibit B – Budget	Page(s): 48
Exhibit B – Attachments	Page(s): 0
Exhibit C – General Terms and Conditions	Page(s): 25
Exhibit C – Attachments	Page(s): 0
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REIMBURSABLE AMOUNT \$ 5,833,000
MATCH SHARE \$ 2,856,547
TOTAL \$ 8,689,547

The undersigned parties have read the attachments to this agreement and will comply with the standards and requirements contained therein.

CALIFORNIA ENERGY COMMISSION		RECIPIENT	
AUTHORIZED SIGNATURE	DATE	AUTHORIZED SIGNATURE	DATE
NAME Rachel L. Grant Kiley		NAME	
TITLE Contracts, Grants and Loans Office Manager		TITLE	
CALIFORNIA ENERGY COMMISSION ADDRESS 1516 9th Street, MS 1, Sacramento, CA 95814			

Exhibit A-1

Schedule of Products and Due Dates

Task Number	Task Name	Product(s)	Due Date
1.1	Attend Kick-off Meeting	Updated Schedule of Products	1/6/2017
		Updated List of Match Funds	1/6/2017
		Updated List of Permits	1/6/2017
		Kick-Off Meeting Agenda (CEC)	1/6/2017
1.2	Critical Project Review Meetings	Agenda and List of Expected Participants	7/11/2017
		1st CPR Meeting Schedule for Written Determination	7/11/2017
		CPR Report(s)	7/11/2017
		Written determination (CEC)	7/11/2017
1.3	Final Meeting	Written documentation of meeting agreements	12/9/2019
		Schedule for completing closeout activities	12/9/2019
1.4	Monthly Progress Reports		The 10th calendar day of each month during the approved term of this Agreement
		Monthly Progress Reports	
1.5	Final Report	Final Outline of the Final Report	8/23/2019
		Draft Final Report (no less than 60 days before the end term of the agreement)	9/5/2019
		Final Report	11/6/2019
1.6	Identify and Obtain Match Funds	A letter regarding match funds or stating that no match funds are provided	2/6/2017
		Copy(ies) of each match fund commitment letter(s) (if applicable)	2/6/2017
		Letter(s) for new match funds (if applicable)	Within 10 days of identifying new match funds
		Letter that match funds were reduced (if applicable)	Within 10 days of identifying reduced funds
1.7	Identify and Obtain Required Permits	Letter documenting the permits or stating that no permits are required	5/9/2017
		A copy of each approved permit (if applicable)	Within 10 days of receiving each permit
		Updated list of permits as they change during the term of the Agreement (if applicable)	Within 10 days of change in list of permits
		Updated schedule for acquiring permits as changes occur during the term of the Agreement (if applicable)	Within 10 days of change in schedule for obtaining permits
		A copy of each final approved permit (if applicable)	Within 10 days of change in schedule for obtaining permits
1.8	Obtain and Execute Subcontracts	Letter describing the subcontracts needed, or stating that no subcontracts are required	3/9/2017
		Draft subcontracts	15 days prior to the scheduled execution date
		Final subcontracts	Within 10 days of execution
2	DESIGN, BUILD, AND COMMISSION YARD TRACTORS	Truck Summary Report with Photographs	7/23/2018
3	PLAN, DESIGN, INTEGRATE, AND COMMISSION ITS	ITS Task Management	1/2/2017-5/30/2019
		FRATIS Module PLANNING, DESIGN, AND INTEGRATION	
		ECO-Drive PLANNING, DESIGN, AND DEVELOPMENT	
		GeoStamp Module PLANNING, DESIGN, AND INTEGRATION	
		ECO-FRATIS Integrated Application	
		DEMONSTRATION, DEPLOYMENT, DATA COLLECTION, AND ANALYSIS	
4	DEMONSTRATION, DATA COLLECTION, AND ANALYSIS	Data collection information and analysis will be provided in the final report (Task 1.5)	11/6/2019



Metro

Los Angeles County
Metropolitan Transportation Authority

One Gateway Plaza
Los Angeles, CA 90012-2952

213.922.2000 Tel
metro.net

October 4, 2016

Kerry Cartwright, P.E.
Port of Los Angeles
425 S. Palos Verdes Street
San Pedro, California 90733

**Subject: California Energy Commission – Freight Transportation Projects at California Seaports Grant:
Letter of Commitment**

Dear Mr. Cartwright,

The Los Angeles County Metropolitan Transportation Authority (Metro) is providing this letter of commitment for the Eco-FRATIS Drayage Truck Efficiency project. We are pleased to hear that the Port of Los Angeles (POLA) was selected by the California Energy Commission (CEC) for the Freight Transportation Projects at California Seaports Grant, and look forward to working with you to deploy intelligent transportation systems (ITS) solutions.

As part of the POLA's project, approximately \$1.0 million was funded for ITS and connected vehicle technology, which would provide a drayage solution that integrates and extends the capabilities and potential benefits of the Freight Advanced Travel Information System (FRATIS) project, Harbor Trucking Association (HTA)/Infomagnus Geostamp application, and University of California Riverside (UCR) Eco-Driving application.

In Metro's Letter of Support to the CEC for this grant application submittal, dated March 21, 2016, Metro committed to provide funding support in the form of hard match in the amount of \$240,000. In addition, Metro will provide staff support towards stakeholder coordination and development of ITS concepts identified in the Gateway Cities Technology Plan for Goods Movement. We will prepare the funding agreement between Metro and POLA, and forward it to your attention for review and approval.

We look forward to working with POLA and CEC to develop and deploy a success ITS pilot project. If you have any questions, please contact Metro's Project Manager, Ed Alegre, at 213-922-7902.

Sincerely,

Abdollah Ansari
Managing Executive Director

cc: Steve Gota, Deputy Executive Officer, Highway Program
Ernesto Chaves, Senior Director, Highway Program
Ed Alegre, Senior Manager, Highway Program

Category Budget
(see instructions)

Name of Organization

Productivity Apex, Inc.

- Contractor/Recipient Subcontractor
 Small Business Micro Business Disabled Veteran Business Enterprise (DVBE)

Cost Category	Energy Commission Reimbursable Share	Match Share	Total
Direct Labor	\$ 171,334	\$ 125,494	\$ 296,828
Fringe Benefits	\$ 29,551	\$ 24,835	\$ 54,387
Total Labor	\$ 200,886	\$ 150,329	\$ 351,215
Travel	\$ -	\$ -	\$ -
Equipment	\$ 70,000	\$ 12,000	\$ 82,000
Materials/Miscellaneous	\$ -	\$ -	\$ -
Subcontractors	\$ -	\$ -	\$ -
Total Other Direct Costs	\$ 70,000	\$ 12,000	\$ 82,000
Indirect Costs	\$ 187,352	\$ 157,452	\$ 344,804
Profit (not allowed for grant recipients)	\$ 55,760	\$ -	\$ 55,760
Total Indirect and Profit	\$ 243,112	\$ 157,452	\$ 400,564
Grand Totals	\$ 513,998	\$ 319,781	\$ 833,779

Direct Labor (Unloaded)
(see instructions)

Productivity Apex, Inc.

Hourly Rates

Employee Name	Job Classification / Title	Maximum Labor Rate (\$ per hour)	# of Hours	Energy Commission Funds	Match Share	Total
Dr. Mansooreh Mollaghasemi	Task 4. Program Manager	\$ 90.00	520	\$ -	\$ 46,800.00	\$ 46,800
Dr. Sam Fayez	Task 4. Project Manager	\$ 62.50	808	\$ -	\$ 50,408	\$ 50,408
Dr. Ahmed ElNashar	Task 4. Scientist	\$ 38.00	1,027	\$ 9,934.00	\$ 28,286	\$ 38,220
Fabio Zavagnini	Task 4. Industrial Engineer	\$ 33.30	1,200	\$ 61,969.00	\$ -	\$ 61,969
Surya Suluh	Task 4. Software Engineer	\$ 45.66	2,000	\$ 91,320.00	\$ -	\$ 91,320
Natalie Fernandez	Task 4. Administration	\$ 21.63	375	\$ 8,111.25	\$ -	\$ 8,111
Hourly Direct Labor Totals				\$ 171,334	\$ 125,494	\$ 296,828

Monthly Salary Rates

Employee Name	Job Classification / Title	Maximum Labor Rate (\$ per month)	# of Months	Energy Commission Funds	Match Share	Total
		\$ -		\$ -	\$ -	\$ -
		\$ -		\$ -	\$ -	\$ -
		\$ -		\$ -	\$ -	\$ -
		\$ -		\$ -	\$ -	\$ -
		\$ -		\$ -	\$ -	\$ -
		\$ -		\$ -	\$ -	\$ -
Monthly Direct Labor Totals				\$ -	\$ -	\$ -
				Energy Commission Funds	Match Share	Total
Direct Labor Grand Totals				\$ 149,325	\$ 125,494	\$ 274,819

Subcontracts

(see instructions)

Productivity Apex, Inc.

Task No.	Subcontractor Name	Purpose	CA Business Certifications DVBE/SB/MB/None	Energy Commission Funds	Match Share	Total
				\$ -	\$ -	\$ -
				\$ -	\$ -	\$ -
				\$ -	\$ -	\$ -
				\$ -	\$ -	\$ -
				\$ -	\$ -	\$ -
				\$ -	\$ -	\$ -
				\$ -	\$ -	\$ -
				\$ -	\$ -	\$ -
				\$ -	\$ -	\$ -
				\$ -	\$ -	\$ -
				\$ -	\$ -	\$ -
				\$ -	\$ -	\$ -
				\$ -	\$ -	\$ -
				\$ -	\$ -	\$ -
Total:				\$ -	\$ -	\$ -

Indirect Costs and Profit

(see instructions)

Productivity Apex, Inc.

Indirect Cost(s)

Name of Indirect Cost	Maximum Rate	Indirect Cost Base Description	Indirect Cost Base Amount	Energy Commission Funds	Match Share	Total
Overhead	22.73%	Direct labor plus fringe	\$ 329,206	\$ 40,659	\$ 34,170	\$ 74,829
General & Administrative (G&A)	66.82%	Value-added method (Labor, fringe, overhead)	\$ 404,034	\$ 146,694	\$ 123,282	\$ 269,976
	0.00%		\$ -	\$ -	\$ -	\$ -
	0.00%		\$ -	\$ -	\$ -	\$ -
	0.00%		\$ -	\$ -	\$ -	\$ -
Total:				\$ 187,352	\$ 157,452	\$ 344,804

Profit

(Profit is not allowed for Grant Recipients)

Profit Rate	Profit Base Description	Profit Base Amount	Energy Commission Funds	Match Share	Total
10.00%	Total costs	\$ 557,600	\$ 55,760	\$ -	\$ 55,760
Total:			\$ 55,760	\$ -	\$ 55,760

\$ 513,998 \$ 319,781 \$ 833,779

Category Budget

InfoMagnus

Name of Organization

- Contractor/Recipient Subcontractor
 Small Business Micro Business Disabled Veteran Business Enterprise (DVBE)

Cost Category	Energy Commission Reimbursable Share	Match Share	Metro Match	Total
Direct Labor	\$ 58,966	\$ 25,385	\$ 23,611	\$ 107,962
Fringe Benefits	\$ 8,373	\$ 3,605	\$ 3,353	\$ 15,331
Total Labor	\$ 67,340	\$ 28,989	\$ 26,964	\$ 123,293
Travel	\$ -	\$ -		\$ -
Equipment	\$ -	\$ -		\$ -
Materials/Miscellaneous	\$ -	\$ -		\$ -
Subcontractors	\$ -	\$ -		\$ -
Total Other Direct Costs	\$ -	\$ -		\$ -
Indirect Costs	\$ 20,067	\$ 8,639	\$ 8,035	\$ 36,741
Profit (not allowed for grant recipients)	\$ 8,740	\$ -	\$ -	\$ 8,740
Total Indirect and Profit	\$ 28,807	\$ 8,639	\$ 8,035	\$ 45,481
Grand Totals	\$ 96,147	\$ 37,628	\$ 35,000	\$ 168,774

Direct Labor (Unloaded)

InfoMagnus

Hourly Rates

Employee Name	Job Classification / Title	Maximum Labor Rate (\$ per hour)	# of Hours	Energy Commission Funds	Match Share	Metro Match	Total
Narayanan Kulasaker	Director of Analytics	\$ 91.35	275	\$ 25,120	\$ -		\$ 25,120
Harikumar Tata	Technology Lead	\$ 41.35	275	\$ 11,370	\$ -	\$ 11,370.19	\$ 22,740
Naveen Kirane	Sr Database Dev	\$ 39.90	275	\$ 10,974	\$ -		\$ 10,974
Himanshu Kumar	Sr Developer	\$ 41.83	275	\$ 11,502	\$ -	\$ 11,544.23	\$ 23,047
Kaveh Mahjoob	Architect	\$ 115.38	110	\$ -	\$ 12,692	\$ 697	\$ 13,389
Sal Manzo	Project Manager	\$ 115.38	110	\$ -	\$ 12,692		\$ 12,692
Hourly Direct Labor Totals				\$ 58,966	\$ 25,385	\$ 23,611	\$ 107,962

Monthly Salary Rates

Employee Name	Job Classification / Title	Maximum Labor Rate (\$ per month)	# of Months	Energy Commission Funds	Match Share	Metro Match	Total
		\$ -	-	\$ -	\$ -		\$ -
Monthly Direct Labor Totals				\$ -	\$ -		\$ -
				Energy Commission Funds	Match Share		Total
Direct Labor Grand Totals				\$ 58,966	\$ 25,385	\$ 23,611	\$ 107,962

Fringe Benefits

InfoMagnus

Fringe Benefit Base Description (Employee or Job Classification/Title)	Max. Fringe Benefit Rate (%)	Direct Labor Costs (\$)	Energy Commission Funds	Match Share	Metro Match	Total
All Classifications	14.20%	\$ 107,962	\$ 8,373	\$ 3,605	\$ 3,353	\$ 15,331
Fringe Benefit Totals		\$ 107,962	\$ 8,373	\$ 3,605	\$ 3,353	\$ 15,331

Travel

InfoMagnus

Task No.	Traveler's Name and/or Classification	Departure and Destination	Trip Purpose	Energy Commission Funds	Match Share	Total
				\$ -	\$ -	\$ -
Total:				\$ -	\$ -	\$ -

Equipment

InfoMagnus

Task No.	Description	Purpose	# Units	Unit Cost	Energy Commission Funds	Match Share	Total
				\$ -	\$ -	\$ -	\$ -
Total:					\$ -	\$ -	\$ -

Materials & Miscellaneous

InfoMagnus

Task No.	Description	Purpose	# Units	Unit Cost	Energy Commission Funds	Match Share	Total
				\$ -	\$ -	\$ -	\$ -
Total:					\$ -	\$ -	\$ -

Subcontracts

InfoMagnus

Task No.	Subcontractor Name	Purpose	CA Business Certifications DVBE/ SB/MB/None	Energy Commission Funds	Match Share	Total
				\$ -	\$ -	\$ -
Total:				\$ -	\$ -	\$ -

Indirect Costs and Profit

InfoMagnus

Indirect Cost(s)

Name of Indirect Cost	Maximum Rate	Indirect Cost Base Description	Indirect Cost Base Amount	Energy Commission Funds	Match Share	Metro Match	Total
Overhead	10.00%	Modified Direct Labor	\$ 123,293	\$ 6,734	\$ 2,899	\$ 2,696	\$ 12,329
General & Administrative (G&A)	18.00%	Direct Labor, Fringe Benefits, Indirect Costs	\$ 135,622	\$ 13,333	\$ 5,740	\$ 5,339	\$ 24,412
Total:				\$ 20,067	\$ 8,639	\$ 8,035	\$ 36,741

Profit

(Profit is not allowed for Grant Recipients)

Profit Rate	Profit Base Description	Profit Base Amount	Energy Commission Funds	Match Share		Total
7.00%	Total costs	\$ 160,034	\$ 8,740	\$ -	\$ -	\$ 8,740
Total:			\$ 8,740	\$ -	\$ -	\$ 8,740