

Department of Commerce and Consumer Affairs

CERTIFICATE OF GOOD STANDING

I, the undersigned Director of Commerce and Consumer Affairs of the State of Hawaii, do hereby certify that

HAWAII OIL SEED PRODUCERS (HOSPRO) FDN

was incorporated under the laws of Hawaii on 06/13/2014 ; that it is an existing nonprofit corporation; and that, as far as the records of this Department reveal, has complied with all of the provisions of the Hawaii Nonprofit Corporations Act, regulating domestic nonprofit corporations.



IN WITNESS WHEREOF, I have hereunto set my hand and affixed the seal of the Department of Commerce and Consumer Affairs, at Honolulu, Hawaii.

Dated: January 16, 2019

Director of Commerce and Consumer Affairs

Hawaii Oil Seed Producers

**DECLARATION STATEMENT OF
APPLICANTS FOR GRANTS PURSUANT TO
CHAPTER 42F, HAWAII REVISIED STATUTES**

The undersigned authorized representative of the applicant certifies the following:

- 1) The applicant meets and will comply with all of the following standards for the award of grants pursuant to Section 42F-103, Hawaii'i Revised Statutes:
 - a) Is licensed or accredited, in accordance with federal, state, or county statutes, rules, or ordinances, to conduct the activities or provide the services for which a grant is awarded;
 - b) Complies with all applicable federal and state laws prohibiting discrimination against any person on the basis of race, color, national origin, religion, creed, sex, age, sexual orientation, or disability;
 - c) Agrees not to use state funds for entertainment or lobbying activities; and
 - d) Allows the state agency to which funds for the grant were appropriated for expenditure, legislative committees and their staff, and the auditor full access to their records, reports, files, and other related documents and information for purposes of monitoring, measuring the effectiveness, and ensuring the proper expenditure of the grant.
- 2) If the applicant is an organization, the applicant meets the following requirements pursuant to Section 42F-103, Hawaii'i Revised Statutes:
 - a) Is incorporated under the laws of the State; and
 - b) Has bylaws or policies that describe the manner in which the activities or services for which a grant is awarded shall be conducted or provided.
- 3) If the applicant is a non-profit organization, it meets the following requirements pursuant to Section 42F-103, Hawaii'i Revised Statutes:
 - a) Is determined and designated to be a non-profit organization by the Internal Revenue Service; and
 - b) Has a governing board whose members have no material conflict of interest and serve without compensation.

Pursuant to Section 42F-103, Hawaii'i Revised Statutes, for grants used for the acquisition of land, when the organization discontinues the activities or services on the land acquired for which the grant was awarded and disposes of the land in fee simple or by lease, the organization shall negotiate with the expending agency for a lump sum or installment repayment to the State of the amount of the grant used for the acquisition of the land.

Further, the undersigned authorized representative certifies that this statement is true and correct to the best of the applicant's knowledge.

HAWAII OIL SEED PRODUCERS LLC

(Typed Name of Individual or Organization)



01/16/2019

WILLIAM W STEINER

GENERAL MANAGER (Title)

STATEMENT ON PUBLIC PURPOSE

Hawaii Oil Seed Producers

- (1) The name of the requesting organization or individual is:

Hawaii Oil Seed Producers (HOSPRO)

- (2) The public purpose for the grant is:

To aid Hawaii to reach 100% renewable energy by 2045, offset job losses due to closure of sugar and pineapple industries, enable farmers to have a choice in what to plant, add to sustainability efforts in Hawaii, and private a base for spin off industries that would bring higher paying technical jobs to Hawaii.

- (3) The services to be supported by the grant are:

Provide oil palms to support development of a new vegetable oil industry in Hawaii where none exists today, including establishing nurseries to grow the hybrid oil palms and developing intercropping techniques to combine food and oil production on the same plots of ground.

- (4) The target group(s) are:

There are at least three (3) target populations. These include: those dependent on diesel fuel for operation of trucks, tractors and production engines; existing and future farmers of Hawaii including those currently participating in the Cooperative, and those seeking the promise of agricultural careers among Hawaiian youth.

- (5) The cost of the grant and the budget is [L 1997, c 190, pt of §3; am L 2014, c 96, §6]:

The cost of this operational grant request is \$399,000; budget pages are attached to give amount and explanation to the different budget request categories.



4/16/2019

II. Background and Summary

1. A brief description of the HOSPRO applicant's background;

After retiring as Dean of the College of Agriculture, Forestry and Natural Resource Management at the University of Hawaii at Hilo (UHH) Dr. Steiner co-founded the Hawaii Oil Seed Producers (HOSPRO), a 501c5 Agricultural Cooperative. HOSPRO was formed after a successful proof of concept study conducted by Dr. Steiner while at UHH. He imported from Costa Rica 10,000 phytosanitized seeds of 3 varieties of oil palm hybrids to determine if they would grow and produce in Hawaii, what elevations, soil types and climate variables were necessary to growth, and what insect and fungal pests would be problems for successful propagation. By 2016 producing trees on half a dozen cooperating farms were producing the equivalent of 650 gallons/acre of vegetable oil.

Thus goal of HOSPRO was to establish the first functional vegetable oil crop in Hawaii on abandoned sugar and pineapple land beginning with the Big Island and moving up the island chain.

2. The goals and objectives related to the request;

The goals laid out in the HOSPRO articles of incorporation are:

- a. Provide farmers and agriculturalists growing oil seed crops a way to share relevant information between themselves and with others;
- b. Provide for purchase, siting and upkeep of commonly owned machinery useful to production and extraction of vegetable oil;
- c. Provide a service to participate in locating common markets;
- d. Provide for research into common growing and processing problems;
- e. And provide a base on which to establish the hundreds of thousands of hybrid oil palms necessary to grow a vegetable oil industry.
- f. Beyond the articles, the immediate goal is to begin Phase I expansion of the oil palm industry from about 8,000 current trees by establishing some 45,000 seedlings desired by more farmers. Seed incubators, shade houses and land to harden the young trees is necessary to this effort.

3. The public purpose and need to be served;

Various reports recently suggest climate change could have dire consequences in Hawaii, especially if a catastrophic increase in ocean height occurs in the next 70 years as projected by studies of rapidly melting Antarctic glaciers. It behooves

production engines including HECO. The second are the existing and future farmers, those in the HOSPRO cooperative and those landowners not yet members including Hawaii youth looking for interesting, long term agricultural careers. In addition, all island populations can benefit since land to grow oil palm trees is available even in back yards, small land holders as well as large landholders. Finally, we cannot rule out the Department of Defense given their needs for their "Green Fleet" concept.

5. Describe the geographic coverage.

Potentially, all the islands are suitable for his new industry as long as water or rainfall is available. We currently have trees growing on 6 locations on Hawaii Island and two on Oahu. The USDA established a dozen trees on Molokai as a test. Only Maui and Kauai remain to be tested. If this proposal is Phase I to establish the basis for larger grow out and nurseries for the hybrid oil palm, then Phase II would be expansion all over the Big Island and Phase III would involve expansion to other islands in the chain. Conceivably, Phase IV would be expansion of vegetable oil into useful and needed products beyond the oil itself.

III. Service Summary and Outcomes

The Service Summary shall include a detailed discussion of the applicant's approach to the request. The applicant shall clearly and concisely specify the results, outcomes, and measures of effectiveness from this request. The applicant shall:

1. Describe the scope of work, tasks and responsibilities;

The scope of work includes leasing a 10 acre tract which includes worn out shade cloth nursery, setting up the USDA funded Mill to process oil nuts from some 8,000 oil palms, repairing and refurbishing the existing shade cloth nursery and establishing a few more, setting up waterlines, and setting up incubators to germinate and grow out phytosanitized seed of hybrid oil palms using sterilized soil from the soil sanitizer. Tasks and responsibilities include:

- a. Rental of site, agreements and leasing accomplished by general manager;
- b. Setup of mill, all personnel with General Manager supervising;
- c. Repair/replacement of waterlines, nursery manager and interns;
- d. Repair/replace shade cloth, nursery manager and interns;
- e. Purchase of incubators and soil sterilizer, general manager;
- f. Order, shipping and tracking of oil palm seed varieties, general manager;
- g. Germinating seeds, moving young seedlings to shade houses, nursery manager and interns;

2. Installation and testing of equipment to guarantee operability;
3. Counts of seedlings at different life stages (germination rate, two leaf stage, leaf whorl formation, 1-foot height planting stage);
4. Meeting planting deadlines and recording numbers planted/transplanted by timeline date;
5. Numbers of orders for oil palm trees.

These are all tangible product measurements. We anticipate 100% efficacy for meeting 1-3, 80-90% for meeting 4, and 75% by end of year one for obtaining orders for trees.

IV. Financial

Budget

1. The applicant shall submit a budget utilizing the enclosed budget forms as applicable, to detail the cost of the request.
 - a. Budget request by source of funds ([Link](#))
 - b. Personnel salaries and wages ([Link](#))
 - c. Equipment and motor vehicles ([Link](#))
 - d. Capital project details ([Link](#))
 - e. Government contracts, grants, and grants in aid ([Link](#))
2. The applicant shall provide its anticipated quarterly funding requests for the fiscal year 2020.

Quarter 1	Quarter 2	Quarter 3	Quarter 4	Total Grant
247,900	27,600	95,900	27,600	399,000

3. The applicant shall provide a listing of all other sources of funding that they are seeking for fiscal year 2020.
 There are no other sources of funding at this time other than dues by cooperators (\$447) and donations (\$100).
4. The applicant shall provide a listing of all state and federal tax credits it has been granted within the prior three years. Additionally, the applicant shall provide a listing of all state and federal tax credits they have applied for or anticipate applying for pertaining to any capital project, if applicable.

wetland preservation Foundation, and Arts and Sciences Center, and Island Prosperity Foundation. Has over 90 scientific publications and broad agricultural and management experience. Managed a \$60,000, 3 year USDA Rural Development grant to HOSPRO to purchase an oil palm mill ending in 2017 and a \$8,625 student intern grant from the County of Hawaii to HOSPRO ending in 2018.

Dan Davis, B.A. Magna Cum Laude UC Monterey Bay in web design and IT, former mechanic, worked form Navitas Naturals in e-commerce and design, set up the HOSPRO website at hawaiiilseedproducers.com. Currently manages the family fruit and oil palm farm at Mountain View on Hawaii Island.

Steve Jacquier, Ph.D. Candidate biology University of Alaska Fairbanks. Teaching certified in Alaska native programs and Ecology with Chemistry minor M.S. from Cal State Stanislaus (1984). Has taught internationally (Indonesian Institute of Ecology) and in the USA at Ohio State, Rutgers and Berkeley. Currently manages a co-owned mixed production farm at Pahoia, Hawaii Island. He is a member of the Hawaii Palm Society, Big Island Self-Sufficiency Group, Friends of Puna's Future among other organizations. He is leading experiments to grow crops and endangered Hawaiian plant species oil palms to develop intercropping models to make oil palm a robust agricultural and conservation growing system.

Ina Wolfe, B.A.; also received her BBA from UHH and is a licensed CPA in Hawaii and California. She serves as a Director of Special Projects with Taketa, Iwata, Hara and Associates in Hilo and lives in Volcano Village. She provides tax services to varied individuals and companies and has held controllerships positions in various companies including auto and motorcycle dealerships, fitness equipment dealers, private equity firms, a city government and a union. She serves as HOSPRO accountant and comptroller.

Robert Stearn, Texas A&M Maritime Academy engineering program. He has lived on Oahu and the Big Island since 1975 spending time working at the Kahuku Seafood Plantation and running his own surfboard and design business which won him several awards. In 1989 he joined Leilani Foliage LLC specializing in dracaena and palms for export and started his own palm nursery Lellani Palms, serving as President of the Hawaii Export Nursery Association (HENA-2006-2008) and on the Board of Directors. He has won many local and regional awards including in 2007 the "employer of the year" award from the Hawaii House of Representatives for his hiring of the disabled in his nurseries. He brings a sharp focus on nursery management required by the needs of HOSPRO to meet our own nursery goals.

Steve Shropshire was raised in the nursery business in S. Florida and at the age of 18 started the Green Connection, the largest tropical foliage leasing and maintenance business in Alaska with annual revenues of \$3 million. He sold the company in 2001

lines to it including 3-phase power to run the mill. Cinder, soil and gravel holding areas can be easily constructed for transplanting and potting developing oil palm trees.

VI. Personnel: Project Organization and Staffing

1. Proposed Staffing, Staff Qualifications, Supervision and Training

The applicant shall describe the proposed staffing pattern and proposed service capacity appropriate for the viability of the request. The applicant shall provide the qualifications and experience of personnel for the request and shall describe its ability to supervise, train and provide administrative direction relative to the request.

Staff include:

1. One general manager who will provide vision, planning, fundraising and oversee mill operations and sales. Oversight will be provided for all activities as well. The general manager will need equivalent of a B.S. or experience in agriculture, engineering, biology, business management or any relevant field plus experience with growing plants in greenhouses or open fields, pesticide applications, grinding mill operations, safety protocols and financial statements. Current general manager, William Steiner, holds a Ph.D. in Genetics, M.S. equivalency in Systems Engineering, B.S. in Zoology and A.S. in Agriculture. He has raised over 8,000 oil palms from seedling stage to adult stage and built his own Shadehouse to grow fruit tree seedlings. He currently owns and manages a 160 acre farm in Missouri. Although full time, this position is listed here as half time because Dr. Steiner is donating half his time.
2. One secretary intern for recording Board meetings and decisions, daily business, transactions, tracking hourly wages of personnel and keeping time sheets, and keeping track of safety protocols and meetings. Prefer someone with some business training and horticulture experience. Must have good work processing and spreadsheet skills. This position is half time.
3. One nursery manager who will oversee seed germination, transplanting, fertilization, pest treatments and ordering of shade house and field supplies. Will also oversee nursery aids. At least ten years of experience required in nursery and agricultural pursuits. Will require a pesticide permit. This position is $\frac{3}{4}$ time.
4. Two (2) or more interns or aids for labor in shade house, mill or field. Some college preferred with experience in botanical, agricultural preferred; courses acceptable. Must have good work ethic. HOSPRO has plans to hire additional interns under a County grant. These will be half time positions.

Although HOSPRO is requesting $\frac{3}{4}$ to half time funding for positions, we anticipate these to go to full time in year 2 with sales from vegetable oil and young palm trees paying salaries. By Year 5 we anticipate employing up to ten people as the nursery

The applicant shall disclose any pending litigation to which they are a party, including the disclosure of any outstanding judgement. If applicable, please explain.

There are no pending litigations.

2. Licensure or Accreditation

The applicant shall specify any special qualifications, including but not limited to licensure or accreditation that the applicant possesses relevant to this request.

Not applicable at this time. In this agricultural endeavor, no licensures are relevant.

3. Private Educational Institutions

The applicant shall specify whether the grant will be used to support or benefit a sectarian or non-sectarian private educational institution. Please see Article X, Section 1, of the State Constitution for the relevance of this question.

The requested grant will not be used in any educational institution although students may be hired to work under its auspices.

4. Future Sustainability Plan

The applicant shall provide a plan for sustaining after fiscal year 2019-20 the activity funded by the grant if the grant of this application is:

- (a) Received by the applicant for fiscal year 2019-20, but
- (b) Not received by the applicant thereafter.

HOSPRO is making a one-year request for one-year bridge or gap funding. Currently, about 80 acres or 8,000 trees have reached production from the proof of concept study but without the mill set up no oil is being extracted. The fruit/nuts are going to waste or being fed to pigs. The new trees grown under this project and the oil produced will form the basis for self-funded expansion in future years. Cost versus breakdown is shown in Table 1. We have an offer of \$3/gallon from Pacific Biodiesel for oil we produce and the Table income figures are based on this. Production is based on our analysis of oil being produced per tree in 2018 and average across all trees for future year productions. We are assuming that GIA funding of \$399,000 occurs in year 1. We set sales of trees at \$15 each and assume a loss of 10% of seedling trees per year as seen in the proof of concept study. Base cost is the cost of operations + cost of utilities + cost of fuel + cost of setting up the mill (year one only) plus cost of hauling fruit to mill and seedlings to collaborators. Income from composting of dry material (stems and kernel shells) and animal feed (wet crushed meal) is not included in Table 1.

TABLE 1. Income versus cost with subsequent growth for the first 5 years of HOSPRO production. Note by year five there is an annual growth rate of 26.25%.

	Gallons Yr Produced ^a	Oil Income	Seedlings No. of Trees	Tree Sales Income	Total Income	-Base Costs	Carry over	-Misc. Costs ^b	Profit or Loss
1	30,000	\$90,000	20,050	\$330,750	\$420,750	\$ 32,020	\$398,730	\$218,726 ^c	\$180,004
2	30,000	90,000	44,100	432,000	522,000	337,220	184,780	163,934 ^d	200,850
3	30,000	90,000	44,100	432,000	522,000	337,220	352,455 ^e	245,657	307,648
4	103,200	309,600	44,100	661,500	971,100	727,917 ^f	243,183	155,462 ^g	395,369
5	199,200	309,600	88,200	1,323,000	1,920,600	625,000	395,600	155,462	635,527 ^h

^a Production lowered by 80% to adjust for differences in maturity and males versus females.

^b Assumes a 10% miscellaneous cost charge + \$2,000/month rent continuing over time.

^c Profit is carried over for next year operations and capital improvements, or passed through to investors. After first year base costs include purchasing and rearing 49,000 seedlings/year minus 10% losses + base salaries.

^d By year 3 salary adjustments for general manager and nursery manager are full time and student aides have doubled in number.

^e By year 3 we add a 2-ton truck with hydraulic lift bed for handling bedding supplies and tree hauling.

^f Includes cost of doubling shade houses and hiring new Shadehouse aides.

^g By year 5 additional field crews are in place for planting and overseeing larger tree plantings.

^h By year 5 HOSPRO begins expansion beyond 2,000 acres currently available and completely in production by 2024. Additional agricultural land leases will be sought at this time.

BUDGET REQUEST BY SOURCE OF FUNDS

Period: July 1, 2019 to June 30, 2020

Appl

Hawaii Oil Seed Producers

BUDGET CATEGORIES	Total State Funds Requested (a)	Total Federal Funds Requested (b)	Total County Funds Requested (c)
A. PERSONNEL COST			
1. Salaries	71,000	0	0
2. Payroll Taxes & Assessments	0	0	0
3. Fringe Benefits	11,400	0	0
TOTAL PERSONNEL COST	82,400		
B. OTHER CURRENT EXPENSES			
1. Airfare, Inter-Island	0	0	0
2. Insurance	4,000	0	0
3. Lease/Rental of Equipment	12,000	0	0
4. Lease/Rental of Space	12,000	0	0
5. Staff Training	0	0	0
6. Supplies	167,600	0	0
7. Telecommunication	0	0	0
8. Utilities	0	0	0
repairs & maintenance	45,000	0	0
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
TOTAL OTHER CURRENT EXPENSES	240,600		
C. EQUIPMENT PURCHASES	76,000	0	0
D. MOTOR VEHICLE PURCHASES	0	0	0
E. CAPITAL			
TOTAL (A+B+C+D+E)	399,000		
SOURCES OF FUNDING		Budget Prepared By:	
(a) Total State Funds Requested	399,000	WILLIAM STEINER	
(b) Total Federal Funds Requested	0	Name (Please type or print)	
(c) Total County Funds Requested		Signature of Authorized Official	
(d) Total Private/Other Funds Requested	0	WILLIAM STEINER GENERAL MANAGER	
TOTAL BUDGET	399,000	Name and Title (Please type or print)	

BUDGET JUSTIFICATION - PERSONNEL SALARIES AND WAGES

Period: July 1, 2019 to June 30, 2020

Hawaii Oil Seed Producers

	POSITION TITLE	FULL TIME EQUIVALENT	ANNUAL SALARY A	% OF TIME ALLOCATED TO GRANT REQUEST B
1-	General Manager	1/2 time	\$36,000.00	50% OF TIME
1-	Nursery Manager	3/4 time	\$32,000.00	75% OF TIME
	2 Student Assistants (interns)	1/2 time	\$14,000.00	49% OF TIME
Totals				
TOTAL:				

JUSTIFICATION/COMMENTS:

general manager provides oversight, purchasing authority, grant management, fund raising, , mill setup; Nursery manager

BUDGET JUSTIFICATION - EQUIPMENT AND MOTOR VEHICLES

Period: July 1, 2019 to June 30, 2020

Hawaii Oil Seed Producers

DESCRIPTION EQUIPMENT	NO. OF ITEMS	COST PER ITEM	TOTAL COST
Soil sanitizer	1.00		\$ 40,000.00
Incubators for seed germination, sterile	3		\$ 36,000.00
			\$ -
			\$ -
			\$ -
TOTAL:	4		\$ 76,000.00

JUSTIFICATION/COMMENTS: Soil sterilizer and incubators are to provide fungus free environments for seed germination.

DESCRIPTION OF MOTOR VEHICLE	NO. OF VEHICLES	COST PER VEHICLE	TOTAL COST
			\$ -
			\$ -
			\$ -
			\$ -
			\$ -
TOTAL:			

JUSTIFICATION/COMMENTS:

BUDGET JUSTIFICATION - CAPITAL PROJECT DETAILS

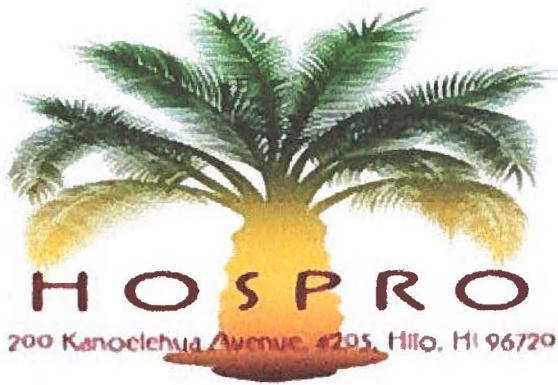
Period: July 1, 2019 to June 30, 2020

Hawaii Oil Seed Producers

FUNDING AMOUNT REQUESTED						
TOTAL PROJECT COST	ALL SOURCES OF FUNDS RECEIVED IN PRIOR YEARS		STATE FUNDS REQUESTED	OTHER SOURCES OF FUNDS REQUESTED	FUNDING REQUIRED IN SUCCEEDING YEARS	
	FY: 2017-2018	FY: 2018-2019	FY:2019-2020	FY:2019-2020	FY:2020-2021	FY:2021-2022
PLANS	0	0	0	0	0	0
LAND ACQUISITION	0	0		0		
DESIGN	0	0	0	0		
CONSTRUCTION	0	0	0	0		
EQUIPMENT	60000	0	0	0		
TOTAL:	60000					
JUSTIFICATION/COMMENTS:						
HOSPRO will be looking to raise additional funding through joint venture and production						

SUMMARY; Operations Budget HOSPRO For Growing 45,000 oil palms 2019-2020

Personnel	Category	Request				TOTALS
		Q1	Q2	Q3	Q4	
Salaries						
General Manager (1/2 time)	18,000 =	4,500	4,500	4,500	4,500	
Nursery Manager (3/4 time)	25,000 =	6,250	6,250	6,250	6,250	
Student Assistants (2 halftime)	28,000 =	7,000	7,000	7,000	7,000	71,000
Benefits						
Nursery Manager	5,800 =	1,450	1,450	1,450	1,450	
Student Assistants	5,600 =	1,400	1,400	1,400	1,400	11,400
Shadehouse repairs						
Plumbing	18,000 =	9,000		9,000		18,000
Screen shading & maintenance	27,000 =	24,000	1,000	1,000	1,000	27,000
Insurance.						
Liability (labor and public annual)	800 =	800				
Assets coverage	3,200 =	3,200				4,000
Equipment						
Soil Sanitizer	40,000	40,000				40,000
Seed Incubators (3)	36,000	36,000				36,000
Leases						
Tractor with lift, sprayer, mower	12,000	3,000	3,000	3,000	3,000	12,000
Shadehouse and millhouse space	12,000	3,000	3,000	3,000	3,000	12,000
Supplies						
Seed purchase and shipping						
Phyto-sanitized seeds, Costa Rica	45,000 =	22,500		22,500		
Shipping of sealed plastic containers	5,000 =	2,500		2,500		
Inspection and clearance	2,000 =	1,000		1,000		
Heavy mill plastic Rearing bags	5,000 =	2,500		2,500		57,000
Irrigation system repairs	30,000 =	20,000		10,000		30,000
Tropical mix soil (80 trk loads@\$370 Per load)	29,600 =	14,800		14,800		29,600
Shade and millhouse struct. repairs	39,000 =	39,000				39,000
Pesticides and Fertilizers						
Fungicides	1,500 =	750		750		
Beetle and aphid sprays	1,500 =	750		750		
Fertilizers	9,000 =	4,500		4,500		12,000
	\$399,000 =	247,900	27,600	95,900	27,600	\$399,000



January 17, 2018

William Wallace Mokahi Steiner
General Manager and Chair, Board of Directors
Hawaii Oil Seed Producers (HOSPRO) LLC

To: GIA grants offices, State of Hawaii Legislative offices

Sirs:

Please find enclosed our operations grant proposal for expenses of 2019-2020 to develop a nursery for production and expansion of hybrid oil palms to be used in developing a vegetable oil industry in Hawaii. The funding for \$399,000 is a one-time request to provide gap funding between startup and obtaining more trees in order to jump start the industry. Whereas the American Midwest, Argentina, Brazil and China have significant vegetable oil industries with spin offs for industries such as edible oils, biofuels, plastics, cosmetics and pharmaceuticals, while the waste materials are used in animal feed and compost, isolated Hawaii shares none of these benefits. All these items can be manufactured from palm oil with tremendous potential impact and stabilization for the Hawaiian economy in terms of new jobs, new industries and especially biofuel. Starting now can realize these potentials within a two decades while making use of abandoned sugar and pineapple lands. What's more, other crops can be intercropped between the trees including cattle, sheep, goats, cacao, coffee, and other shade tolerant plants. The great thing about growing oil palms in Hawaii is that they will produce amounts similar to other tropical areas, and unlike Indonesia and Malaysia they do not impinge on our natural forests if we use old sugar and pineapple lands.

We are excited by these opportunities and hope you will be too. We may be contacted by phone at 808-294-0750, by email at wwsteiner@gmail.com and by mail at HOSPRO, 200 Kanoiehua Avenue, No. 205, Hilo, HI 96720.

Mahalo for your careful consideration,

A handwritten signature in blue ink, appearing to read 'William Steiner', is written over a horizontal line.

William Wallace Mokahi Steiner, PhD
General Manager and co-Founder