

House District 7

Senate District 4

THE TWENTY-EIGHTH LEGISLATURE
APPLICATION FOR GRANTS
CHAPTER 42F, HAWAII REVISED STATUTES

Log No:

For Legislature's Use Only

Type of Grant Request:

GRANT REQUEST – OPERATING

GRANT REQUEST – CAPITAL

"Grant" means an award of state funds by the legislature, by an appropriation to a specified recipient, to support the activities of the recipient and permit the community to benefit from those activities.

"Recipient" means any organization or person receiving a grant.

STATE DEPARTMENT OR AGENCY RELATED TO THIS REQUEST (LEAVE BLANK IF UNKNOWN):

STATE PROGRAM I.D. NO. (LEAVE BLANK IF UNKNOWN):

1. APPLICANT INFORMATION:

Legal Name of Requesting Organization or Individual:
Ka Ahahui O Ka Nahelehele

Dba:

Street Address:

Mailing Address: P.O. Box 2933, Kamuela, HI 96743

2. CONTACT PERSON FOR MATTERS INVOLVING THIS APPLICATION:

Name JILL WAGNER

Title Program Coordinator

Phone # 808 325-2377

Fax # _____

E-mail jillw@hawaii.rr.com

3. TYPE OF BUSINESS ENTITY:

- NON PROFIT CORPORATION INCORPORATED IN HAWAII
- FOR PROFIT CORPORATION INCORPORATED IN HAWAII
- LIMITED LIABILITY COMPANY
- SOLE PROPRIETORSHIP/INDIVIDUAL
- OTHER

6. DESCRIPTIVE TITLE OF APPLICANT'S REQUEST:

PROVIDE ENHANCED SEED BANKING SERVICES AND SUPPORT RAPID OHIA DEATH RESEARCH AND MITIGATION

4. FEDERAL TAX ID #: [REDACTED]

5. STATE TAX ID #: _____

7. AMOUNT OF STATE FUNDS REQUESTED:

FISCAL YEAR 2017: \$ 40,000.

8. STATUS OF SERVICE DESCRIBED IN THIS REQUEST:

- NEW SERVICE (PRESENTLY DOES NOT EXIST)
- EXISTING SERVICE (PRESENTLY IN OPERATION)

SPECIFY THE AMOUNT BY SOURCES OF FUNDS AVAILABLE AT THE TIME OF THIS REQUEST:

STATE \$ 0

FEDERAL \$ 0

COUNTY \$ 0

PRIVATE/OTHER \$ 0

TYPE NAME & TITLE OF AUTHORIZED REPRESENTATIVE:

MARY METCALF, PRESIDENT
NAME & TITLE

1/20/16
DATE SIGNED



RECEIVED
1/21/16 *ML*

Application for Grants

If any item is not applicable to the request, the applicant should enter "not applicable".

I. Background and Summary

This section shall clearly and concisely summarize and highlight the contents of the request in such a way as to provide the State Legislature with a broad understanding of the request. Please include the following:

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

Ka Ahahui O Ka Nahelehele (Nahelehele) was incorporated under the laws of Hawaii on 04/06/2000 as a 501(c)(3) organization dedicated to the preservation and restoration of dryland forest ecosystems in Hawaii. Its founding members constituted the Dryland Forest Working Group in Hawaii, all who have spent decades raising the awareness about dryland forest conservation needs as only 5 to 10% of these forest areas remain in Hawaii.

Its founding members included research scientists, biologists, ecologists, dryland forest historical and cultural experts, US and State Forestry representatives, local agricultural and forestry business representatives and dryland forest advocates. Nahelehele seeks to be a collaborative entity that assists in facilitating projects to succeed culturally, educationally, scientifically, and financially. The volunteer Nahelehele Board and its partners comprise an active, hands-on network of dryland forest-related individuals and groups, which allows for achievement of its organizational objectives without full-time staff.

Recently Nahelehele took over responsibility for the Hawaii Island Seed Bank due to the importance of seed banking as a conservation tool for preserving the dry forest. It is the only publically available seed bank on Hawaii Island and currently there are eleven users of the Hawaii Island Seed Bank generating approximately \$1400 in annual revenue.

2. *The goals and objectives related to the request;*

The goals and objectives of this request are to enhance the seed banking services for landowners and organizations that collect seed for forest restoration and agriculture use on Hawaii Island. Specifically, the goals are to provide a seed germination chamber and labor in order to conduct seed viability testing for native plant species as well as offer seed viability testing services to users of the seed bank. Additional use of the labor funding will be used to provide Ohia (*Metrosideros polymorpha*) seed collecting, cleaning and drying services for research on Rapid

Ohia Death (ROD) being conducted by the Lyon Arboretum Seed Lab, a research unit of the University of Hawaii on Oahu, and for banking of Ohia seed to ensure the perpetuity of this species.

3. *The public purpose and need to be served;*

The Hawaii Island Seed Bank is the only publically available seed bank on Hawaii Island. Currently it lacks the equipment and labor funding to provide a major component of seed banking best practices, which is to understand the viability of various seed in storage over time. This grant will allow these viability studies to be conducted. Without this knowledge, seeds could be stored that are no longer viable thus negating the purpose of storing seeds. These services will support both environmental conservation work on Hawaii Island and agriculture seed banking by providing proper protocols and storage criteria for seeds, to ensure there is viable seed being stored for its intended purpose. It is a critical tool for any land based perpetuation of plant life.

Currently very little is known about the storage viability of Hawaiian native seeds, many of which are threatened and federally endangered. Once funded by this request, the Hawaii Island Seed Bank will be able to help contribute to the current ongoing research effort by various Hawaii institutions with seed banks who are partnering to conduct viability testing of Hawaiian native seeds in storage over time (representing around 750 species tested at 0, 1, 5 and 10 years), in order to optimize the storage of these seeds for conservation purposes. This work is very important for Hawaii native plant species conservation and this major effort is in the beginning stages. The intention is that each seed bank in Hawaii contributes towards this effort with research results shared statewide. The other partner institutions involved in this research include Lyon Arboretum, the National Tropical Botanical Garden on Kauai, the Maui Nui Botanical Garden and the Oahu Army Natural Resources Program.

Labor funding will also support our work with Lyon Arboretum to collect and save *Metrosideros polymorpha* (Ohia) seed, due to the serious threat of Rapid Ohia Death in almost every forest ecosystem on Hawaii Island. Ohia seed must be correctly processed and dried before shipment to Lyon Arboretum on Oahu for research purposes, in order to prevent the spread of Rapid Ohia Death beyond Hawaii Island. Ohia is the foundation species of the forests in Hawaii and losing this species could have a catastrophic impact on these forests.

4. *Describe the target population to be served; and*

The population served is the statewide conservation community working to preserve native ecosystems that are facing pressures due to climate change and diseases. Also served are Hawaii Island landowners doing agriculture, the Kona Public Library, which provides seeds for the community and stores the seed in the

seed bank, and The Kohala Center which is building a farmers cooperative throughout the State.

5. *Describe the geographic coverage.*

The Hawaii Island Seed Bank provides seed storage primarily for Hawaii Island users, but it is also a backup facility for storage of the seed collections for Lyon Arboretum on Oahu, and the National Tropical Botanical Garden on Kauai. The research results on viability testing of native Hawaiian seeds in storage will be shared statewide.

II. 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 is to provide equipment and labor for conducting seed cleaning, storage, and seed viability germination trials to partners.

The equipment is in place for most of the seed banking processes with the exception of the germination chamber and ancillary equipment and supplies which is part of this grant request. The germination chamber is critical because it provides a controlled environment which minimizes variabilities in seed germination to ensure accuracy of the seed viability test results. The work and tasks related to the germination chamber are to specify, order, install and set up the germination chamber and ready it for viability testing. This includes flying over an expert from Lyon Arboretum to aid in the setup of the equipment and training in its use.

The work and tasks related to conducting germination trials and viability testing of native plant and other requested seeds include the following:

- Clean in-coming seed collections with seed cleaning equipment.
- Process the seed with a debearder machine to separate the seed from the husk.
- Process the seed through clippers which remove the seed from the husk.
- Conduct germination trials on in-coming seed collections, and repeat at one, five and ten year periods in storage to determine viability over time.
- Dry the seed in drying chambers for a period of 30 days.
- Bag, weigh, label and database collections.
- Place collections in the storage facility for storage up to 15 years as the viability test results dictate.

Jill Wagner will be responsible for conducting all of the above work and tasks.

2. *Provide a projected annual timeline for accomplishing the results or outcomes of the service;*

- In the first quarter the germination chamber will be specified and ordered.
- In the second quarter, the germination chamber will be installed and we will work with Lyon Arboretum to optimize the setup of environmental conditions in the chamber for seed viability analysis and be thoroughly trained on its use.
- Once the germination chamber is ready for use, we will begin the labor described in section II.-1 above to conduct viability testing of seeds.
- Cleaning, drying, storing and shipping Ohia seed to Lyon Arboretum will be conducted throughout the year.

3. *Describe its quality assurance and evaluation plans for the request. Specify how the applicant plans to monitor, evaluate, and improve their results; and*

We are utilizing the expertise in Lyon Arboretum to develop best practice protocols for seed banking in Hawaii. We will use these best practice protocols to monitor, evaluate, and improve our seed banking services including the seed viability analysis. We also consult and receive training from the National Seed Repository in Fort Collins, Colorado. We work closely with these partners to review and improve our results.

4. *List the measure(s) of effectiveness that will be reported to the State agency through which grant funds are appropriated (the expending agency). The measure(s) will provide a standard and objective way for the State to assess the program's achievement or accomplishment. Please note that if the level of appropriation differs from the amount included in this application that the measure(s) of effectiveness will need to be updated and transmitted to the expending agency.*

The first measure of effectiveness will be the successful installation and setup of the germination chamber, which will be verified by a Lyon Arboretum expert.

The second measure of effectiveness will be the successful completion of a number of seed viability analyses. Through working with Lyon Arboretum and the other Hawaii seed banks, our seed bank has a target list of 8 high priority Hawaiian native species that we want to begin studying over the next year. A complete viability test consists of an initial test of the in-coming collection, and at the end of 1, 5 and 10 years in storage. By the end of this grant our objective is to complete the initial viability testing for two of the high priority species, which are collected several times for testing throughout the year. We will also conduct viability testing for users of the seed bank that request it, though it is uncertain at this time how many users will request this service.

The third measure of effectiveness will be the amount of Ohia seed that is cleaned, dried and shipped to Lyon Arboretum and stored in the Hawaiian Island Seed Bank to ensure the perpetuity of this species given the very serious threat of Rapid Ohia Death.

III. Financial

Budget

- 1. The applicant shall submit a budget utilizing the enclosed budget forms as applicable, to detail the cost of the request.*
- 2. The applicant shall provide its anticipated quarterly funding requests for the fiscal year 2017.*

Quarter 1	Quarter 2	Quarter 3	Quarter 4	Total Grant
\$20,000	\$8,000	\$6,000	\$6,000	\$40,000

- 3. The applicant shall provide a listing of all other sources of funding that they are seeking for fiscal year 2017.*

We will also be seeking funding from the County of Hawaii Nonprofit Grant, FY2016-2017.

- 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.*

None, Ka Ahahui O Ka Nahelehele is a 501(c)(3) non-profit organization.

- 5. The applicant shall provide a listing of all federal, state, and county government contracts and grants it has been and will be receiving for program funding.*

No federal, state or county contracts or grants have been received to support the Hawaii Island Seed Bank. All grants received in the past for this program were from non-profit organizations.

- 6. The applicant shall provide the balance of its unrestricted current assets as of December 31, 2015.*

The unrestricted current assets as of December 31, 2015 for Ka Ahahui O Ka Nahahehele are \$68,921.

IV. Experience and Capability

A. Necessary Skills and Experience

The applicant shall demonstrate that it has the necessary skills, abilities, knowledge of, and experience relating to the request. State your experience and appropriateness for providing the service proposed in this application. The applicant shall also provide a listing of verifiable experience of related projects or contracts for the most recent three years that are pertinent to the request.

Jill Wagner is the program coordinator for the Hawaii Island Seed Bank, working as an independent contractor. She earned her BA degree in Ethnobotany from the University of Hawaii, Hilo and has been working in Hawaii conservation since 1994. She performed propagation of native Hawaiian species at the Amy BH Greenwell Ethnobotanical Garden, as well as her own nursery, Future Forests Nursery, LLC. She has taught environmental education for many years through Kealakehe High School, Kona Public Library, Kona Community School for Adults and many other venues. She is a respected forestry consultant and has conducted numerous restoration projects. Seed banking is an important aspect of restoration. She initiated the Hawaii Island Seed Bank in 2008 with the support from the Hawaii Forest Institute and the Hawaii Wildfire Management Organization and has been coordinating the seed bank ever since.

Ms. Wagner did training on seed banking at the Lyon Arboretum with Dr. Alvin Yoshinaga. She has done numerous workshops with the top seed experts in the United States and regularly consults and collaborates with the National Tropical Botanical Garden on Kauai, the Lyon Arboretum Seed Lab, and the National Germplasm Seed Lab in Fort Collins, Colorado.

B. Facilities

The applicant shall provide a description of its facilities and demonstrate its adequacy in relation to the request. If facilities are not presently available, describe plans to secure facilities.

The seed bank has a laboratory for conducting seed work in the Kaloko mauka area of Kailua Kona, Hawaii. This will be the facility that houses the germination chamber requested in this grant application. The lab is fully equipped with the exception of the germination chamber. The lab has drying chambers, bagging sealers, and all of the necessary tools for cleaning and preparing seed for storage. It also has a refrigerator for temporary storage until the seed goes into the Hawaii Is-

land Seed Bank's long term storage facility which is located at Rogers Ranch, Puu Waawaa.

Rogers Ranch, which is owned by Henk Rogers, built a standalone micro power grid at the base of Puu Waawaa powered by a renewable energy system and is the power source for the seed bank storage unit. The system consists of 85 kW of photo voltaic panels, and a state of the art Sony Energy Storage System. The Sony ESS provides the primary storage for powering the seed bank storage unit at night, and in poor weather. The olivine type, lithium iron phosphate batteries are rated at 50 kilowatts of power with 110 kilowatt hours of stored energy. There is also a hydrogen fuel electrical generator back up system with the hydrogen fuel generated and stored on site to ensure uninterrupted power for the seed bank storage unit. Henk Rogers donates both space and power for the Hawaii Island Seed Bank's walk-in cooler, which provides savings of over \$4,000 per year in operational costs.

V. Personnel: Project Organization and Staffing

A. 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.

Ms. Jill Wagner, working as an independent contractor, is currently the only staff for the seed bank and her qualifications and experience are listed above in Section IV. A.

B. Organization Chart

The applicant shall illustrate the position of each staff and line of responsibility/supervision. If the request is part of a large, multi-purpose organization, include an organization chart that illustrates the placement of this request.

Jill Wagner, Program Coordinator

C. Compensation

The applicant shall provide the annual salaries paid by the applicant to the three highest paid officers, directors, or employees of the organization by position.

Ka Ahahui O Ka Nahelehele currently operates on a volunteer basis and has no paid officers, directors or employees of the organization.

VI. Other

A. Litigation

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 is no litigation or outstanding judgements on Ka Ahahui O Ka Nahelehele.

B. 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

C. 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.

Not applicable

D. Future Sustainability Plan

The applicant shall provide a plan for sustaining after fiscal year 2016-17 the activity funded by the grant if the grant of this application is:

(1) *Received by the applicant for fiscal year 2016-17, but*

(2) *Not received by the applicant thereafter.*

Funding for sustaining the activity in this request after 2016-17 is three fold. First is to increase revenue from the seed bank by promoting expanded use of the seed-bank and its services, which will include seed viability testing as well as the other seed bank services. Currently there are eleven users of the seed bank and we are seeing increased interest in the Hawaii Island Seed Bank by both conservation and agricultural related entities. Second, we plan to pursue a number of private foundations for additional grant and sponsorship opportunities for assistance beyond the 2016-17 time frames. Third, we plan to work with the local University of Hawaii extensions and employ graduate students to help with the labor for the seed bank services and native plants seed viability research while providing edu-

cational and research opportunities for these graduate students. This is the focus of the County grant that we are seeking.

E. Certificate of Good Standing (If the Applicant is an Organization)

If the applicant is an organization, the applicant shall submit one (1) copy of a certificate of good standing from the Director of Commerce and Consumer Affairs that is dated no earlier than December 1, 2015.

The Certificate of Good Standing is included in the following pages.

BUDGET REQUEST BY SOURCE OF FUNDS

Period: July 1, 2016 to June 30, 2017

Applicant: Ka Ahahui O Ka Nahelehele

BUDGET CATEGORIES	Total State Funds Requested (a)	Total Federal Funds Requested (b)	Total County Funds Requested (c)	Total Private/Other Funds Requested (d)
A. PERSONNEL COST				
1. Salaries				
2. Payroll Taxes & Assessments				
3. Fringe Benefits				
TOTAL PERSONNEL COST				
B. OTHER CURRENT EXPENSES				
1. Airfare, Inter-Island, Car & Lodging	1,000			
2. Insurance				
3. Lease/Rental of Equipment				
4. Lease/Rental of Space				
5. Staff Training				
6. Supplies	2,000			
7. Telecommunication				
8. Utilities				
9. Nahelehele Overhead Charge	4,000		1,660	
10. Contracted Services	20,000		5,000	
11. Honorarium for Graduate Student			10,000	
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
TOTAL OTHER CURRENT EXPENSES	27,000		16,660	
C. EQUIPMENT PURCHASES	13,000			
D. MOTOR VEHICLE PURCHASES				
E. CAPITAL				
TOTAL (A+B+C+D+E)	40,000		16,660	
SOURCES OF FUNDING		Budget Prepared By:		
(a) Total State Funds Requested	40,000	Jill Wagner 808 325-2377		
(b) Total Federal Funds Requested		Name (Please type or print) Phone		
(c) Total County Funds Requested	16,660	Signature of Authorized Official Date		
(d) Total Private/Other Funds Requested		Mary Metcalf, President		
TOTAL BUDGET	56,660	Name and Title (Please type or print)		

BUDGET JUSTIFICATION - EQUIPMENT AND MOTOR VEHICLES

Period: July 1, 2016 to June 30, 2017

Applicant: Ka Ahahui O Ka Nahelehele

DESCRIPTION EQUIPMENT	NO. OF ITEMS	COST PER ITEM	TOTAL COST	TOTAL BUDGETED
Germination Chamber, including shipping and installation	1	\$12,000.00	\$ 12,000.00	12000
Magnification camera	1	\$1,000.00	\$ 1,000.00	1000
		\$ -		
		\$ -		
		\$ -		
TOTAL:	2		\$ 13,000.00	13,000

JUSTIFICATION/COMMENTS Seed viability testing can not be performed in a repeatable, accurate manner without the use of a germination chamber which provides a controlled environment that eliminates variability in the germination results due to environmental conditions.

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

JUSTIFICATION/COMMENTS:

BUDGET JUSTIFICATION - CAPITAL PROJECT DETAILS

Period: July 1, 2016 to June 30, 2017

Applicant: Ka Ahahui O Ka Nahelehele

FUNDING AMOUNT REQUESTED						
TOTAL PROJECT COST	ALL SOURCES OF FUNDS RECEIVED IN PRIOR YEARS		STATE FUNDS REQUESTED	OF FUNDS REQUESTED	FUNDING REQUIRED IN SUCCEEDING YEARS	
	FY: 2014-2015	FY: 2015-2016	FY: 2016-2017	FY: 2016-2017	FY: 2017-2018	FY: 2018-2019
PLANS						
LAND ACQUISITION						
DESIGN						
CONSTRUCTION						
EQUIPMENT						
TOTAL:						
JUSTIFICATION/COMMENTS:						N/A

GOVERNMENT CONTRACTS AND / OR GRANTS

Applicant: Ka Ahahui O Ka Nahelehele

Contracts Total: 25,000

	CONTRACT DESCRIPTION	EFFECTIVE DATES	AGENCY	GOVERNMENT ENTITY (U.S. / State / Haw / Hon / Kau / Mau)	CONTRACT VALUE
1	Kaulunani grant for native plant restoration at Ouli Park in Waimea	2014/2015	Hawaii Department of Land & Natural Resources, Div. of Forestry and Wildlife	State	10,000
2	Grant for fencing and irrigation at Ouli Park in Waimea	2015/2016	Hawaii Tourism Authority	State	15,000
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**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 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 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 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 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.

Ka Ahahui O Ka Nahelehele

(Typed Name of Individual or Organization)

(Signature)

1/20/16

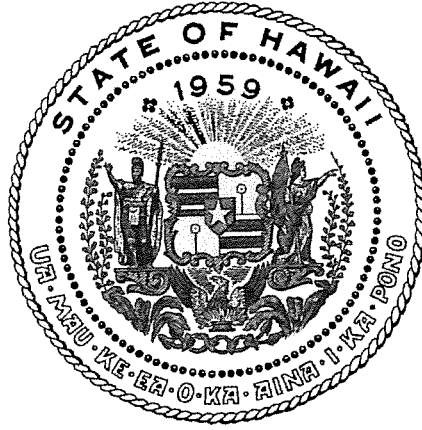
(Date)

Mary Metcalf

(Typed Name)

President

(Title)



Department of Commerce and Consumer Affairs

CERTIFICATE OF GOOD STANDING

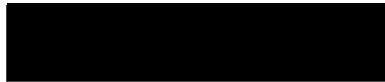
I, the undersigned Director of Commerce and Consumer Affairs of the State of Hawaii, do hereby certify that

KA `AHAHUI `O KA NAHELEHELE

was incorporated under the laws of Hawaii on 04/06/2000 ; 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 15, 2016



Director of Commerce and Consumer Affairs

