

House District 4  
Senate District 2

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

Log No

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): MALAMA O PUNA

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

1. APPLICANT INFORMATION:

Legal Name of Requesting Organization or Individual: Malama O Puna  
Dbn:  
Street Address: Street Address: 15-2881 Pahoa Village Rd.  
Mailing Address: P.O. Box 1520  
Pahoa, HI. 96778

Name CINDY DUPUIS  
Title Field Biologist  
Phone # 808 937 8867  
Fax # n/a  
e-mail dupuis@hawaii.edu

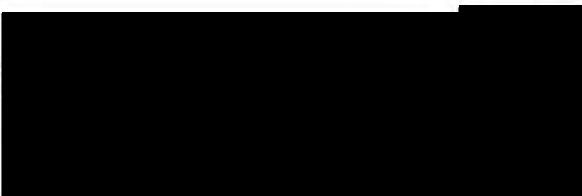
3. TYPE OF BUSINESS ENTITY:

- 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:

MAINTAINING AND EXPANDING UPON THE KEA'OHANA NATIVE LOWLAND RAINFOREST PROJECT

4. FEDERAL  
5. STATE



7. AMOUNT OF STATE FUNDS REQUESTED:

FISCAL YEAR 2018: \$ 118,874.00

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 \$ 118,874  
FEDERAL \$ \_\_\_\_\_  
COUNTY \$ 5,910(?)  
PRIVATE/OTHER \$ \_\_\_\_\_

RENE SIRACUSA  
AUTHORIZED SIGNATURE

RENE SIRACUSA, PRESIDENT

NAME & TITLE

1-18-17  
DATE SHOWN



RECEIVED

1/20/17 *na*

## Application for Grants

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

### I. Background and Summary

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

Malama O Puna (MOP), a 501(c)(3) nonprofit environmental volunteer service organization ([www.malamaopuna.org](http://www.malamaopuna.org)), established to protect the natural heritage of the Puna district of Hawai'i Island. Our mission is to assure critical habitat for native species and open space for future generations through environmental education, hands-on projects and acquisition of real property for preservation, protection and restoration. MOP and its precursors (Puna Outdoor Circle) have been serving the Pahoia community since 1990.

Past projects/accomplishments: Miconia eradication, Pahoia Police Substation Landscaping; tree planting at Pahoia community aquatic center & Pahoia High parking lot; native plant propagation for Arbor Day give-away; "Get The Drift & Bag It"; Ainaloa connector lot tree planting, litter pickups incl. 64 acres Sand Hill removal of 400+ abandoned vehicles, red mangrove eradication island-wide, coqui lime voucher program coordination, weed eradication in Wao Kele O Puna, originated Heavy Metal roadside appliance removal, etc. The restoration of 30 acres in the Keauohana Forest Reserve is our most recent achievement.

Between June 2014 and October 2016 the Keau'ohana Forest Reserve has undergone an intensive restoration process that substantially reduced invasive species on ~30 acres of the most biodiverse portion of the reserve down-slope of Highway 130. Native species such as 'ohe (*Polyscias hawaiiensis*), a rare yet fast-growing native canopy tree, has been out-planted in the restored area to fill open areas in need of shade. Despite damages caused by hurricane *Iselle* and subsequent 'ohi'a loss due to Rapid 'Ohi'a Death (ROD), the Keau'ohana forest ecosystem is responding extremely well to restoration measures, with native seedling regeneration occurring naturally for most species (including 'ohi'a), and invasive species resilience declining. Private donations to MOP will enable modest but critical maintenance efforts until additional funding is secured.

2. The goals and objectives related to the request;

Keau'ohana Forest Reserve in the Puna district of Hawai'i Island is the largest and most intact lowland wet forest remaining below 1,000 feet in elevation in the State of Hawai'i. It is also the most optimal remaining critical habitat for the endangered ha'iwale (*Cyrtandra nanawalensis*). The restoration site within Keau'ohana Forest Reserve currently includes ~30

acres of biodiverse native forest, but also includes > 50 acres of early succession ohia/uluhe forest, for a total of ~80 acres of native forest land down-slope of Highway 19.

Having undergone initial phases of intensive restoration, it is important now to follow-up with appropriate weeding efforts in order to eliminate the numerous invasive seedlings that are naturally regenerating due to the very abundant seed bank. Invasive seedlings will inevitably persist over time because birds will bring them in from outside of the restoration site. However, if seedlings are removed before reaching maturity, the high surplus of seeds found in the immediate seed bank will diminish considerably, and in turn, the need for weeding will be minimized. There are a few problematic areas in the site that have required more intensive restoration. It is important to continue to closely monitor and to repeat treatments in these areas until they are fully restored.

It is our goal to stay ahead of the weeding efforts on the entire restoration site, as well as to expand upon it by pushing back invasion wherever possible along its perimeters. In addition to maintaining the core biodiverse forest restoration site and expanding upon its edges, we would like the project to expand in a number of directions which include: the improvement of trails for ease of walking; the creation and placement of signs for ease of navigation; the creation and placement of signs for identification of species in the general volunteer loop area; the completion of a second loop to include the western portion along HWY 130 to the official volunteer area; more community out-reach and education measures and events. Malama O Puna has opened a new office and environmental resource center in downtown Pahoehoe. We would like to contract an office person to do outreach/education, (including the creation of an official out-reach flyer and map of the Keauohana Native Forest, help with sign production, offer classroom presentations for local vegetation awareness and field preparation...).

The goal of the project is to reconstitute the native forest composition and integrity to the extent possible. We will continue to strive toward > 90% native composition, as some of the less aggressive non-native species are tolerated in some cases. All three dominant invasive plants in Keau'ohana are classical targets of biological control. A bio-control (*Tectococcus sp.*) for *P. cattleianum* is already being farmed within a few plots at Keau'ohana by the U.S. Forest Service's Institute of Pacific Islands Forestry (IPIF). Host specificity tests of various bio-controls are being conducted for *Clidemia* as well as *P. foetida*. As bio-controls become available, they will continue to be released into the project area, so that there could ultimately be long term reduced-labor control of those weeds. Permits for such releases will be sought from DOFAW by MOP. IPIF has research plots based in Keau'ohana for investigating Rapid Ohia Death (ROD). Working in cooperation with other conservation professionals in this way contributes to the overall long term restoration goal of this project.

3. The public purpose and need to be served;

As the Hawaiian island ecosystems continue to be lost to development, agriculture and invasive species, there is an urgent need for conservation planning and implementation.



Maintaining representative areas of all ecosystem types is a major long-term goal of conservation; encompassing the full range of biodiversity across the entire elevation gradient is critical. Conservation of low elevation native wet forests has been largely ignored to date. Remaining lowland wet forests of Hawai'i are today reservoirs of rare native species, and their surviving biota is of great biological significance. Protection of this native ecotype will provide habitat for the endangered Hawaiian hawk ('io, or *Buteo solitarius*), and other native birds such as the 'amakihi (*Hemignathus virens*) and 'apapane (*Himatione sanguine*), that are making a comeback in the low elevation forests. The project will also benefit the endangered ha'iwale (*Cyrtandra nanawalensis*), whose habitat is almost entirely restricted to remaining native forests of lower Puna. Keau'ohana is thus its last secure habitat.

4. Describe the target population to be served;

Restoration efforts in Keau'ohana rainforest over the past several years have motivated community volunteer interest and effort. There have been over 2,200 community volunteer hours offered since the launching of this project in June of 2014. As the most intact lowland wet forest readily available to the public, Keau'ohana will continue to be available for the further study and restoration of native lowland wet forests. Now that the restoration process is well under way, the educational component will become a stronger and more active component of the project. Enhanced community outreach will help educate Hawai'i residents and visitors about native species, native forest composition and issues of invasion. Community enthusiasm suggests that this proposed project has a high potential for success in terms of ongoing education and outreach as well as forest restoration.

5. Describe the geographic coverage.

Keau'ohana Forest Reserve in the Puna District of Hawai'i Island is the largest and most intact lowland wet forest remaining below 1,000 feet in elevation in the State of Hawai'i. The current restoration area is down-slope of Highway 19 and includes approximately 80 acres. This includes ~30 acres of biodiverse native forest, and > 50 acres of early succession 'ohi'a/uluhe forest, for a total of ~80 acres of native forest land down-slope of Highway 19. There are approximately 70 more acres of restorable forest north of Highway 19, on the west side of Upper Puna Road, beyond invasive species' road-side effects. The restoration of this extension of the native forest may follow the future success of this project, however this will only be realistic if long term funding is procured.

## 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;

This project will continue to use a variety of control strategies to manage and/or eradicate all invasive species. *Clidemia hirta*, and strawberry guava/waiawi (*Psidium cattleianum*), are this forest's main problematic species. *Clidemia* will continue to be the prominent target species in Keauohana for several more years because, unlike for strawberry guava, seeds can remain viable for a number of years, and seedlings can reach maturity within a year. Because waiawi seeds have a longevity of only a few months, this species is already much more manageable. There is however, a certain level of come-back which occurs at the base of treated stems as much as one year following treatment. And although there has not yet been substantial damages resulting from feral pigs, activity is increasing due to trail accessibility and ground disturbance. This may pose complications in the future.

Although the control of kukae maile (*Paederia foetida*) is much improved due to repeated chemical foliar treatments, this species was also quite problematic in some areas. Other important invasive species on the site include *Melastoma septemnerium*, thimble berry (*Rubus rosifolius*), coleus (*Plectranthus scutellarioides*). Secondary invasive species of target are *Cecropia obtusifolia*, gun powder (*Trema orientalis*) and *Melochia umbellata*, all in early stages of invasion, with *Cecropia* being the most advantaged at this point. Although *albizia* trees (*Falcataria moluccana*) are found prolifically along and on the other side of HWY 130, they are not a strong invasive component of the site. All afore-mentioned species are important target species especially now that light conditions due to 'ohi'a loss has dramatically increased. Measures will be conducted to control other less harmful non-native species to a reasonable degree, however annual species that grow to seed quickly are beyond possible to control, such as with the relatively recently introduced *Crassocephalum crepidioides* and *Erechtites valerianifolia*. Basket grass (*Oplismenus hirtellus*) and the Polynesian Yam are a challenge as they are not sensitive to Garlon herbicide. Efforts are nonetheless made to selectively consolidate and compost them when it is effective or beneficial to nearby native species. The non-native *Nephrolepis multiflora* is the forest's dominant ground cover and is selectively pulled to remove competition with existing native plants and to create space for native recruits and outplants.

An early-detection and rapid-response capacity will continue to be incorporated for any and all newly established pests or potentially invasive outliers/harmful plant species that threaten the native composition of the forest. Control methods will include hand-pulling individuals that can be pulled, and managing existing compost piles as needed; hand sawing a circumference cut at base of stems and applying a thin-line application of Garlon-4 to cambium layer of waiawi stragglers and treating revived stems; and spraying locations with an abundance of seedlings and persisting invasive clusters with a foliar application of Garlon- 3A. A strawberry guava buffer

along the roadside will be monitored and managed, and efforts will be made to push back and reduce waiawi buffer and other invasives along interior edges, in order to expand the site and enhance the native integrity of the forest over time. Control strategies will prioritize certain weed species when appropriate, based on timing of seed maturation and persistence. Knowledge of plant phenology and dispersal will be utilized in order to more effectively manage the native plant community.

Native tree out-planting will continue to be conducted to fill in light gaps created by control measures, as well as by wind damage, 'ohi'a death, and other natural deaths. These out-plantings include 'ohe (*Polyscias hawaiiensis*) and lama (*Diospyros sandwicensis*), kopiko (*Psychotria hawaiiensis*), and kolea (*Myrsine lessertianna*) species that are already present in this forest. A native plant nursery has been established to supply plants grown from locally-sourced seed (Koa'e Nursery/ Hawaiian Reforestation Program). Propagation efforts will include direct seeding of locally collected seeds, and scattering of fast growing shade-producing native species such as mamaki (*Pipturus albidus*). More than thirty of the endangered *Cyrtandra nanawalensis* colonies have been located in this area and will receive priority attention through the removal of surrounding weeds and debris to foster their growth and success. Out-planting of this endangered species will also be continued under a threatened and endangered permit from the DLNR/DOFAW.

#### **Crew Divisions**

A field biologist and approximately four technicians will be engaged as independent contractors for the extended project. All contractors will primarily be responsible for the manual and chemical control of invasive species in the main interior restoration site one day per week. Efforts will also continue to include the out-planting of native species to fill forest gaps, and continue to observe a linear pattern along three primary restoration North-South swaths. Exceptions will be made in cases when priority areas need to be tended. Dead stem breakdown and consolidation due to natural death, ROD, and the treatment of waiawi is an added but necessary component of the project.

Two designated technicians will be responsible for trail maintenance and improvement one day per week. This will include weeding, leveling the brittle 'a'a substrate; clearing dead wood/fallen trees. Directional signs will be created and erected along trails.

Two designated technicians will be responsible for the maintenance of volunteer loops along the highway, and the facilitation of educational volunteer events. This will consist of weeding both sides of the volunteer trail (with or without volunteers) to include the entire volunteer strip along HWY 130 (~5 acres). Educational signs about the native species will be created and erected along volunteer loop trails.

One office person will be hired one day per week to do community out-reach; coordinate volunteer events; help develop an official Keau'ohana native rainforest flyer; offer educational presentations/tours; apply for future project funding, etc. All contractors will initially receive \$14.00/hr; experienced contractors will receive up to \$16.00/hr.



Quarterly volunteer days will consist of community volunteers working in cooperation with field biologist in maintaining the restored volunteer area. Outreach efforts and volunteer recruitment will activate further volunteer field day opportunities and educational experiences in the restoration of lowland wet forest. These events will be assisted by field biologist and available technicians.

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

This project proposes to continue restoration efforts along each swath on a systematic basis according to past treatment schedule, but also prioritize control measures depending on landscape needs. Some areas are more problematic and need repeated treatments due to high levels of light and subsequent weed infestations. The entire ~30 acres restoration site will receive a minimum of one pass within the fiscal year. Trails and problematic areas will receive repeated treatments according to need. Ongoing out-planting of native seedlings will be conducted during rainy periods and seasons, according to need and plant availability. The breakdown and consolidation of dead wood/trees will be conducted throughout the year according to need.

Quarterly volunteer days will be facilitated as well as other volunteer events, according to community interest. Additional volunteer events and educational opportunities will be sought through outreach measures according to school sessions. Classroom presentations will be offered to increase awareness of lowland vegetation issues and solutions with a focus on the restoration of our local Keau'ohana native rainforest.

Outreach and educational flyers will be developed and distributed in the community and at numerous local schools early in the fiscal year to help recruit forest volunteers and restoration support. Directional signs and plant identification signs will be created and erected by the end of the fiscal year.

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

A record of daily progress in restoration efforts has been kept since June of 2014 in order to monitor progress over time. This practice will continue to be kept, indicating a detailed description of the vegetation, work conducted and the area covered. Two gps units help to facilitate both navigation in the field as well as a record and mapping of efforts using associated mapping programs. Outplantings are tagged for monitoring of growth and fertilized for higher success rates. Monitoring efforts will promote informed land use decision-making that will help protect this watershed. Data records of original study plots, and transects are available for comparison studies at any point in the future. The applicant has been, and will continue to work with several forest restoration specialists: Professor, Rebecca Ostertag, University of Hawai'i at Hilo; GS-14 Research Ecologists, Susan Cordell Ph.D., and R. Flint Hughes, Ph.D., Institute of Pacific Islands Forestry/ USDA Forest Service; Lyman Perry (DLNR/Division of Forestry and

Wildlife), grants permission to access Keau'ohana Forest Reserve and visits site on quarterly basis.

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.

A record of daily progress will be kept indicating the work accomplished, area covered and vegetation description. A gps unit will track and offer a visual display of the areas being tended and restored; each pass being highlighted by a different color on a map . Lyman Perry (DLNR/Division of Forestry and Wildlife) will visit site on quarterly basis.

### 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 2018.

Quarter 1	Quarter 2	Quarter 3	Quarter 4	Total Grant
29,718	29,718	29,718	29,718	118,874

3. The applicant shall provide a listing of all other sources of funding that they are seeking for fiscal year 2018.

We have requested County Council Contingency Funding \$5,910, but status is still pending.

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.

N/A



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.

- County Contingency District 4 -- \$5,000
- State GIA FY2014 -- Applied for \$107,672  
-- Received \$97,672

6. The applicant shall provide the balance of its unrestricted current assets as of December 31, 2016.

\$15,763.80

#### **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.

Project principal, Cindy J. Dupuis, M.S., MOP board member, resident since 1989, and dedicated volunteer restoring native lowland wet forest for over 10 years. Out of a particular interest in the conservation of remaining native forests, Ms. Dupuis obtained a graduate degree in Tropical Conservation Biology and Environmental Science with the University of Hawai'i at Hilo (published thesis by ProQuest LLC, 2013; available upon request). Her studies were made possible thanks to a \$15,000 grant awarded to her by National Geographic/ In order to better understand lowland wet forests of East Hawai'i and the effect of invasive species throughout this region, her research took a landscape-level approach, surveying plant cover in a total of 325 plots across Puna District Forest Reserves. She evaluated vegetation patterns in these forests according to substrate age and elevation, with a particular focus on native-dominated sites. The project helped to identify and define general vegetation trends, specific species distribution patterns, and priority zones for restoration in order to help develop an effective restoration plan and facilitate conservation efforts ([dupuis@hawaii.edu](mailto:dupuis@hawaii.edu)). Ms. Dupuis worked closely as a volunteer with Ann Kobsa Ph.D., MOP Invasive Species Coordinator, since 2007 conducting restoration in lowland wet forests of the Puna District. In June of 2014 she launched her own project coordinating the restoration of Keau'ohana Forest Reserve's remaining native rainforest. Ms. Dupuis has been dedicated to the restoration of Keau'ohana since, and plans to continue doing so for many years to come.

Ann Kobsa will continue to contribute expertise in restoration methodologies and native seeds and plants where possible. René Siracusa, MA, ABD, MOP President; will contribute expertise in administration. Lowland wet forest studies conducted by University of Hawai'i and USDA Forest Service researchers have contributed much to our awareness and interest in preserving these native forests (Hughes and Denslow, 2005; Hughes and Uowolo, 2006;

Zimmerman, *et al.* 2008; Cordell *et al.*, 2009; Ostertag *et al.*, 2009). The applicant has been, and will continue to work closely with several wet forest specialists: Professor, Rebecca Ostertag, University of Hawai'i at Hilo; GS-14 Research Ecologists, Susan Cordell Ph.,D., and R. Flint Hughes, Ph.,D., Institute of Pacific Islands Forestry/ USDA Forest Service; Lyman Perry (DLNR/Division of Forestry and Wildlife) who grants permission to access Keau'ohana Forest Reserve.

List of verifiable experience of related projects:

- Malama 'O Puna / Native forest restoration / Alien plant eradication** **Big Island of Hawaii** **2006-2017**
- Control invasive species and propagate native species in Puna forest reserves and other Big Island locations (Keau'ohana and Halepua'a/Nanawale Forest Reserves, Wao Kele O Puna, Wai 'Opae/ Kapoho, Hilo, Alula Bay ...)
  - Locate, record, map, and protect rare, threatened and endangered species in lowland wet forests
- Organic Horticulture** **Hawaii** **1989-2014**
- Propagate and manage diverse plants / food crops and native species
  - Consult and design landscape for sustainable development and native species integration
  - Build compost and soil
  - Manage small plant nursery
  - Control of weeds using chainsaw, weed-wacker and mower.
- Geometrician Associates LLC, Ron Terry.** **Jan-Feb 2013**
- Pu'u Kaliu Botanical Survey, team field navigation, plant species identification.
- Research Corporation of the University of Hawai'i (RCUH), National Science Foundation (NSF), Centers of Research Excellence in Science and Technology (CREST) / Tropical Conservation Biology and Environmental Science Graduate scholar** **Hilo, Hawai'i** **Fall 2011- Spring 2012**
- Set up research project, order basic materials, assess vegetation patterns
  - Field guide and navigate using Global Positioning System (GPS) and compass
  - Train and monitor field technicians with basic safety and scientific procedures
  - Collect and analyze scientific data, research scientific projects, present project, write formal manuscript.
- Research Corporation of the University of Hawai'i (RCUH), National Science Foundation (NSF), Centers of Research Excellence in Science and Technology (CREST) / Graduate Research Assistant / Field Technician / Stipend** **Hilo, Hawai'i** **Fall 2010-Spring 2011**
- Survey vegetation composition/structure and plant phenology in various climate zones island-wide.
  - Identify native and non-native plant species
  - Navigate using Global Positioning System (GPS) and compass in the field
- Research Corporation University Hawaii (RCUH), Graduate research assistant / Field Technician** **Hilo, Hawai'i** **Summer 2010**
- Survey vegetation composition and structure using various techniques
  - Identify native and non-native plant species
  - Navigate using Global Positioning System (GPS) and compass in the field
- Hilo Community College Service Learning Assistant Coordinator** **Hilo, Hawaii** **2004 - 2009**
- Organize and coordinate environmental work days for HCC students with numerous local agencies
  - Drive groups of volunteers to control invasive weeds, plant native species, clean up beaches...
- Hawaii Volcanoes National Park / Division of Research Management / Field Methods in research and restoration** **Hawaii** **Summer 2007**

- Assess assemblages of vegetative communities
- Identify and propagate rare plants
- Survey and monitor vegetation

**USDA Forest Service, Hilo Pacific Internship Program for Exploring Science, Mentor: Creighton Litton  
Biological Technician**

Hawaii Summer 2006

- Measure Forest Ecology (DBH, Tree Height)
- Develop and utilize allometric equations to examine forest carbon pools
- Navigate using Global Positioning System (GPS) and compass in the field
- Identify native and non-native plants
- Analyze data / display graphics / scientific writing / present power point

**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.

Malama O Puna (MOP), a 501(c)(3) nonprofit is based in Pahoia Village, and will be providing administration services. It operates out of an office that has telephone, computer with internet access, and printer capability. MOP also has an environmental reference library to service the project, and bookkeeping and filing capability to provide administrative support. The project itself will take place almost entirely in the Keau'ohana Forest Reserve just a few miles away. Since the project will take place in a forest, ADA requirements are not applicable and volunteers with mobility disabilities will not be encouraged to participate.

**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.

Four experienced field technicians will be hired as independent contractors, and trained in field navigation and restoration methodologies by Malama O Puna board member, and project coordinator, Cindy Dupuis. MOP Vice president and Invasive Species Coordinator, Ann Kobsa, Ph.D., will contribute expertise in invasive species control and native plant propagation when needed. René Siracusa, MA, ABD, MOP President; will contribute expertise in administration. Although MOP carries a liability policy, all field crew will be required to sign Waivers of Liability. Since these hires will be temporary, MOP will not do a payroll, but instead will sub-contract to individuals with their own GET license, who will submit timesheets/invoices for payment.



Field biologist, Cindy Dupuis, will largely be responsible to manage and oversee the field component of this restoration project. This will include developing the plan of action, directing crew members in its implementation regarding target species and areas on a day to day basis, monitoring and recording progress, and writing out progress reports.

## **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.

MOP Director, Cindy Dupuis, MA., field biologist will manage, oversee, and assist in the implementation of the native forest restoration project, monitor / record progress, and write out progress reports.

MOP Invasive Species Coordinator, Ann Kobsa, Ph.D., will contribute expertise in restoration methodologies as well as native seeds and plants.

MOP President René Siracusa, MA., ABD, will contribute expertise in administration. Four field technicians will conduct weekly chemical/mechanical control of invasive species. Two designated technicians will be responsible for the control of *Psidium cattleianum* and other larger invasive species, and two technicians will be responsible for the smaller trees as well as understory species that can be manually removed and organized into large compost piles

## **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.

The annual amount budgeted for:

Field biologist contract will be \$54,000

Four Field technicians contract will be \$43,008

One Office technician will be \$5,376

These will not be salaries, but independent contractual amounts.

## **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.

N/A

**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.

Cindy Dupuis, MOP director, M.S. (Tropical Conservation Biology and Environmental Science)  
Ann Kobsa, Ph.D.(Biology), MOP Invasive Species Coordinator  
René Siracusa, MA, ABD, (Anthropology) MOP President  
Malama O Puna, 501(c)(3)

**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.

N/A

**D. Future Sustainability Plan**

The applicant shall provide a plan for sustaining after fiscal year 2017-18 the activity funded by the grant if the grant of this application is:

- (1) Received by the applicant for fiscal year 2017-18:  
We will continue to apply for grant funding and increase in volunteer base but may have to reduce expectations of accomplishment.
- (2) Not received by the applicant thereafter: same as above but with even less certainty.

**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, 2016.

## BUDGET REQUEST BY SOURCE OF FUNDS

Period: July 1, 2017 to June 30, 2018

App Malama O Puna (MOP), a 501(c)(3)

BUDGET CATEGORIES	Total State Funds Requested (a)	Total Federal Funds Requested (b)	Total County Funds Requested (c)	Total Private/Other Funds Requested (d)
<b>A. PERSONNEL COST</b>				
1. Sub-contractor invoices	102,384		1,760	105,184
2				
3				
<b>TOTAL PERSONNEL COST</b>	<b>102,384</b>		<b>1,760</b>	<b>105,184</b>
<b>B. OTHER CURRENT EXPENSES</b>				
1. Insurance/ administration	4,500			4,500
2. Supplies	9,490		2,800	15,400
3. Equipment	700			700
4. Transportation	1,800			1,800
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
<b>TOTAL OTHER CURRENT EXPENSES</b>	<b>118,874</b>		<b>5,910</b>	<b>124,784</b>
<b>C. EQUIPMENT PURCHASES</b>				
<b>D. MOTOR VEHICLE PURCHASES</b>				
<b>E. CAPITAL</b>				
<b>TOTAL (A+B+C+D+E)</b>	<b>118,874</b>		<b>5,910</b>	<b>124,784</b>
<b>SOURCES OF FUNDING</b>		Budget Prepared By:		
(a) Total State Funds Requested	118,874	Cindy Dupuis	808 937 8867	
(b) Total Federal Funds Requested		Name (Please type or print) Phone		
(c) Total County Funds Requested	5,910	[Redacted] 1-19-17		
(d) Total Private/Other Funds Requested		Signature of Authorized Official Date		
<b>TOTAL BUDGET</b>	<b>124,784</b>	René Siracusa President of MOP		
		Name and Title (Please type or print)		



## BUDGET JUSTIFICATION - PERSONNEL SALARIES AND WAGES

Period: July 1, 2017 to June 30, 2018

Malama O Puna (MOP), a 501(c)(3)

POSITION TITLE	FULL TIME EQUIVALENT	ANNUAL SALARY A	% OF TIME ALLOCATED TO GRANT REQUEST B	TOTAL STATE FUNDS REQUESTED (A x B)
Field Biologist	0.8	\$54,000.00	100.00%	\$ 54,000.00
Four field technicians	0.6	\$43,008.00	100.00%	\$ 43,008.00
One Office technician	0.2	\$5,376.00		\$5,376.00
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
				\$ -
<b>TOTAL:</b>				<b>102,384.00</b>
<b>JUSTIFICATION/COMMENTS:</b>				
Professional sub-contractors to ensure quality of work does not compromise biological integrity of forest.				

## BUDGET JUSTIFICATION - EQUIPMENT AND MOTOR VEHICLES

Period: July 1, 2017 to June 30, 2018

Applicant: Malama O Puna (MOP), a 501(c)(3)

DESCRIPTION EQUIPMENT	NO. OF ITEMS	COST PER ITEM	TOTAL COST	TOTAL BUDGETED
16" chainsaw	1.00	\$700.00	\$ 700.00	700
			\$ -	
			\$ -	
			\$ -	
			\$ -	
<b>TOTAL:</b>	<b>1</b>		<b>\$ 700.00</b>	<b>700</b>
<b>JUSTIFICATION/COMMENTS:</b>				

DESCRIPTION OF MOTOR VEHICLE	NO. OF VEHICLES	COST PER VEHICLE	TOTAL COST	TOTAL BUDGETED
			\$ -	
			\$ -	
			\$ -	
			\$ -	
			\$ -	
<b>TOTAL:</b>				
<b>JUSTIFICATION/COMMENTS:</b>				

## BUDGET JUSTIFICATION - CAPITAL PROJECT DETAILS

Period: July 1, 2017 to June 30, 2018

Malama O Puna (MOP), a 501(c)(3)

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: 2015-2016	FY: 2016-2017	FY:2017-2018	FY:2017-2018	FY:2018-2019	FY:2019-2020
contractual			102384	1760	unknown	unknown
supplies			9490	2800	unknown	unknown
administration and insurance			4500		unknown	unknown
transportation			1800		unknown	unknown
equipment			700		unknown	unknown
<b>TOTAL:</b>			<b>118,174</b>		unknown	unknown
<b>JUSTIFICATION/COMMENTS:</b>						
Previous sources of State funds (\$ 97,672) were awarded for FY:2014-2015 though appropriated the following FY.						

Less funding will be required but on-going maintenance will be needed; too many variable to determine precise needs at this point.



**GOVERNMENT CONTRACTS AND / OR GRANTS**

Apj Malama O Puna (MOP), a 501(c)(3)

Contracts Total: 118,874

	<b>CONTRACT DESCRIPTION</b>	<b>EFFECTIVE DATES</b>	<b>AGENCY</b>	<b>GOVERNMENT ENTITY (U.S. / State / Haw / Hon / Kau / Mau)</b>	<b>CONTRACT VALUE</b>
1	Native Forest Development and Education	07.1. 2017- 06.1. 201	Malama O Puna		118,874
2					
3					
4					
5					
6					
7					
8					
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29					
30					





## 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

**MALAMA O PUNA**

was incorporated under the laws of Hawaii on 03/09/2000 ;  
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 19, 2017

Director of Commerce and Consumer Affairs

