



Senate Committee on Ways and Means  
State Capitol, Rm. 208  
Honolulu, HI 96813  
Attn: GIA

Aloha!

On behalf of New Island Feed Inc., I would like to thank you for the opportunity to share with you this project. Our passion is all about introducing new methods of island ranching that enable growth and reduce risks. Our project embodies our passion to do just that through applying our hydroponic feed production model to drought mitigation and response. As drought is going to happen again, we believe it's our responsibility to be as prepared for it as possible.

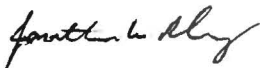
Through proven hydroponic technology and the genius behind the shipping container, we now have the ability to provide a better alternative to existing drought feeding strategies. Through the proposed project and requested funding, our team will develop the Drought Rapid Response Unit. It will combine several readily available technologies into an effective mobile hydroponic feed production facility, capable of producing 2000 pounds of fresh green grass daily. The modularized system can be deployed to virtually anywhere. The system and feed plan is geared to produce more animals in less time when times are good, and geared to provide drought rations to larger groups of animals when times are bad. It's completely independent of weather, which gives ranchers a competitive advantage and risk reducer that they can count on.

Funds that are being requested will be used strictly for the development of our Drought Rapid Response Unit. We respectfully submit the following pages as our application for grant in aid funding.

We thank you for your consideration of our project so that we may be able to help the agricultural animal producers of Hawaii.

Should you have any questions, please feel free to contact Jonathan Braley at (808) 636-3730 or at [jbraley@newislandfeed.com](mailto:jbraley@newislandfeed.com).

Respectfully,

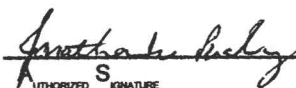


Jonathan Braley  
CEO, New Island Feed Inc.

## Application Submittal Checklist

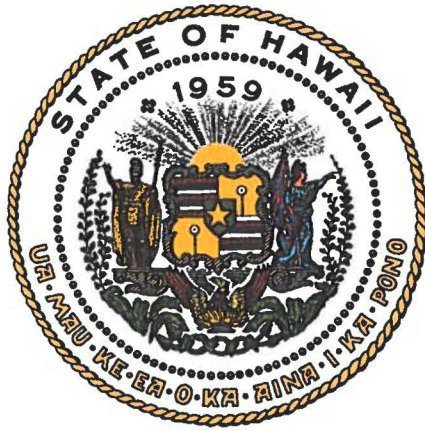
The following items are required for submittal of the grant application. Please verify and check off that the items have been included in the application packet.

- 1) Certificate of Good Standing (If the Applicant is an Organization)
- 2) Declaration Statement
- 3) Verify that grant shall be used for a public purpose
- 4) Background and Summary
- 5) Service Summary and Outcomes
- 6) Budget
  - 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](#))
- 7) Experience and Capability
- 8) Personnel: Project Organization and Staffing

  
AUTHORIZED SIGNATURE

Jonathan Braley, CEO  
PRINT NAME AND TITLE

01-17-2020  
DATE



## 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 according to the records of this Department,

**NEW ISLAND FEED INC.**

was incorporated under the laws of Hawaii on 07/23/2018 ; and that it is an existing corporation in good standing, and is duly authorized to transact business.



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 13, 2020

Director of Commerce and Consumer Affairs

## Application for Grants

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

### **I. Certification – Please attach immediately after cover page**

#### **1. 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, 2019.

#### **2. Declaration Statement**

The applicant shall submit a declaration statement affirming its compliance with Section 42F-103, Hawaii Revised Statutes.

#### **3. Public Purpose**

The applicant shall specify whether the grant will be used for a public purpose pursuant to Section 42F-102, Hawaii Revised Statutes.

### **II. 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;**

New Island Feed Solutions' mission is to provide agro-innovations to island agricultural communities that catalyze island food production while enhancing sustainable resilience. The New Island Approach fills this need with a system that gives complete control of feed production while creating a competitive advantage to regain market share against imports. In this specific project, we are looking for funding to apply the New Island Approach to Drought Mitigation in Hawaii.

Our main product is a turn-key on-ranch feed production system built around the HydroGreen Grow System. These systems consistently produce high quality forages year round, regardless of the outside weather. Our approach utilizes renewable energy and water efficient processes to bring down production costs. On a pound by pound basis,

hydroponically grown grasses increase in volume at a 6:1 ratio. Using about 1/2 gallon of water per pound produced. Whereas alfalfa uses about 39 gallons per pound produced. That equates to 38.5 gallons of water saved per pound produced!

Our systems are remarkably eco-friendly, fully automated, turn-key, and vertically engineered. Our next step is to convert them into mobile rapid response feeding systems that are deployable to ranchers across the state in drought and other times of low forage availability.

Over the next 10 years, our planet and food systems will face many resource constraints from an ever-increasing world population. In the next decade, the world's population will increase to around 8.5 Billion people. Hawaii is expected to grow 9% to 1.47 Million people by 2030. With this population growth we will see:

- Increasing demand for food
- Increasing feed/transport costs
- Decreasing land availability
- Decreasing resource availability

As resources become more and more limited, island populations will be more vulnerable to these issues. Any efforts that improve the island's ability to sustain itself will pay off in dividends as we enter into a future of unprecedented population growth. We need smart systems that prepare us, reduce our risks, and enhance the way we sustainably feed the people of Hawaii.

The state of Hawaii enacted House Bill 623 relating to renewable energy standards. Governor Ige through that legislation has set a goal for Hawaii to be 100% renewable energy powered by 2050. The governor also set the goal for the state to double local food production. In order for us to achieve these goals, food producers need methods that mitigate the risks of raising agricultural animals in Hawaii. We wish to address the devastating risks associated with drought through our Drought Rapid Response Unit.

Droughts and wildland fires threaten all islands of the State of Hawaii in any given year. As recently as the spring of 2016 Hawaii was threatened by extreme drought on parts of Hawaii Island, causing severe impacts including cattle deaths and shortened crop seasons. Examples of drought impacts include the drought from December 1980 to February 1981 that resulted in over \$1.4 million in damages from both agricultural and cattle

losses, and the more recent drought in 2016 that resulted in a fire on the slopes of Diamond Head on Oahu.

In 1996, Hawaii, Maui, and Molokai declared drought emergency; heavy damages to agriculture and cattle industries; losses totaling at least \$49.4 million. From 2000-2002 Hawaii, Maui, Molokai, Oahu, Kauai counties declare drought emergencies; Governor proclaims statewide drought emergency; Secretary of Agriculture designates all Counties as primary disaster areas due to drought (2000); east Maui streams at record low levels; Statewide cattle losses alone projected at \$9 million. In 2010 Hawaii, Honolulu, Kauai, and Maui El Niño drought conditions cause all four counties to be designated as Primary Natural Disaster Areas due to losses caused by drought; All four counties designated as farm disaster areas due to economic losses; Hawaii has the worst drought conditions in the country.

With natural disaster, drought, and deforestation occurring at a shocking rate, it's time Hawaii leads the world toward a more sustainable future that embraces valuable resource efficient technology and systems. It's also time to prepare Hawaii's agriculture for the eventuality of another drought. If we can develop a scalable system that provides for our state's agricultural animals during times of drought; then we can lessen the economic and environmental effects to Hawaii's food producers, thus making them more resilient and sustainable.

2. The goals and objectives related to the request;

We ask the State of Hawaii Legislature to grant funding that will enable the creation of a mobile hydroponic feed mill to be used as a Drought Rapid Response Unit in times of natural disaster and drought.

The Drought Rapid Response Unit is a modular version of New Island's automated hydroponic feed mill. The main components of the system consist of the HydroGreen Grow System, the structure, the renewable energy system, seed storage and delivery system, water storage and delivery system, and feed sizing and delivery system. These main components can all be housed in readily available shipping containers and trailers. Several modifications are required that enable every system to be modularized.

The modular design will use a variety of readily available container types. The grain will be transported and stored using a swap body container. Water will be stored in framed water tank containers. The growing system will be housed in a 40' high cube flat rack with a modified high cube top.

Mounted solar panels on the 40' growing container will provide the 12v system photovoltaic energy through the folding wing side panel design. Rolled mesh netting will be unrolled so its flush with the ground to seal and isolate the growing area, keeping it clean and clear of pests. Additional power will be available from the energy generation trailer equipped with the Smartflower Plus and diesel powered backup generator.

The growing unit is a 4 Section HydroGreen Grow System housed in a 40' modified shipping container. With a footprint of only 320 Sq Ft each module places easily and quickly, virtually anywhere its needed. The system produces 2000 lbs of fresh green feed daily, which when using a drought ration of 10 lbs per head per day, each system will feed 200 animals daily, with less than an acre of local land.

3. The public purpose and need to be served;

The public will be served through the benefits they receive from a more resilient and sustainable local food system. Through helping ranchers mitigate the effects of drought by reducing animal loss, we can more consistently provide the public with fresh locally grown animal products. Furthermore, as our ranchers and farmers provide significant benefits to the public through the food they grow and the land they steward, any advantage that can be given to them will in the end help Hawaii and our goal of being more food independent.

4. Describe the target population to be served; and

The target population served is Hawaii's agricultural animal producers. They will benefit from having the ability to provide fresh-green grass to their animals even when the land cannot provide it. This will give them stability and the ability to provide more consistent end consumer products. It also will relieve the burden on the taxpayers when the economic damages sustained from drought can be reduced through this effort.

5. Describe the geographic coverage.

The Drought Rapid Response Unit will be available to all agricultural animal producers in the state of Hawaii. Drought prone areas will be strategically selected to position the units for the fastest response times. Those areas would typically include the arid micro-climates on each island. Partner ranches will be selected to host the systems.



### **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 will consist of four primary phases. Under this structure, the tasks and activities needed to complete this work will align under each phase's objective. Phase 1 consists of design and material sourcing. During this phase, each module will be designed and the materials will be sourced and staged for fabrication.

Phase 2 consists of modifying the containers and installing the systems components accordingly. At the end of Phase 2, the project will have all material assets assembled and ready for testing in Phase 3.

Phase 3 will consist of quality control, testing, deployment, and harvesting.

Phase 4 will be a post project review that incorporates learnings and improvements captured from the first three phases. At the completion of Phase 4, the project will have a working mobile feed production unit and a blueprint to scale up production for a multi-unit fleet that will provide coverage to the entire state of Hawaii.

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

Phase 1: Q3 of 2020 - Design Finalized and All Material Staged

Phase 2: Q4 of 2020 - Assembly and Fabrication

Phase 3: Q1 of 2021 - Quality Control and Operational Testing

Phase 4: Q2 of 2021 - Post Project Review and Optimized Blue print Complete

At the end of 12 Month project, we will have a fully operational Drought Rapid Response Unit and blueprint for the statewide drought response effort. We will also have valuable feedback for inclusion into the state's next revision of the "Hawaii Drought Plan".

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

Throughout each phase, regular stop gate checks will be conducted to assure that the activities being completed meet the quality and design criteria. The Project Director will be directly responsible to assure all work is properly monitored, and evaluated for continuous improvement measures.

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.

At the end of each phase in the project, a project progress report detailed the work completed to date will be presented to the expending State agency. The progress report will detail the milestones achieved as well as provide metrics from the key performance indicators. Quantifiable key performance indicators and metrics will be used to assure the project stays on track and that the scope is followed. The project's KPI's consists of the following categories: on-time delivery, on-time completion of phases, design criteria met, quality criteria met, operational expectations met, and phased objectives accomplished.

#### **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
  - b. Personnel salaries and wages
  - c. Equipment and motor vehicles
  - d. Capital project details
  - e. Government contracts, grants, and grants in aid
2. The applicant shall provide its anticipated quarterly funding requests for the fiscal year 2021.

| Quarter 1 | Quarter 2 | Quarter 3 | Quarter 4 | Total Grant |
|-----------|-----------|-----------|-----------|-------------|
| \$365,675 | \$67,175  | \$46,175  | \$46,175  | \$525,200   |

3. The applicant shall provide a listing of all other sources of funding that they are seeking for fiscal year 2021.

Not Applicable, None

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.

Not Applicable, None

5. The applicant shall provide a listing of all federal, state, and county government contracts, grants, and grants in aid it has been granted within the prior three years and will be receiving for fiscal year 2021 for program funding.

Not Applicable, None

6. The applicant shall provide the balance of its unrestricted current assets as of December 31, 2019.

Not Applicable, None

## **V. Experience and Capability**

### **1. 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.

Jonathan Braley is the CEO and founder of the sustainable feed solutions company, New Island Feed Inc. He established the corporation in 2018 to provide innovative and resilient feed solutions to customers throughout the Pacific Islands. Jonathan is an entrepreneur from an agricultural inspired family with in-depth small business experience and a real-world perspective; focused on filling the needs of Hawaii's Agriculture community. He takes a project management approach to continuous improvement while providing methodical planning and effective execution of business plans. His experience of more than 14 years working in cross-functional environments in the U.S. and abroad has enabled him to offer a broad and valuable range of skills to Hawaii's agricultural community. He brings strong written and oral communication skills to the table allowing for effective leadership of a wide range of projects from inception to

completion. He is a valuable resource that draws from years of diverse experience and repeated success in developing project initiatives and directing projects. He brings a work philosophy that is dedicated to quality and growth driven planning, and the pursuit of innovative continuous improvement solutions. In combination with his in-depth business development experience, he also was educated in general business from Harding University, received a marketable skills certification in entrepreneurship from Lone Star College, and holds several industry certifications and licenses. He focuses his skills on applying technology, project management, business development and sustainable continuous improvements to helping Hawaii solve its feed and local food supply problems.

Raymond Stanton is the Energy Advisor for Tesla in Hawaii. He began working for Tesla in Hawaii in April 2018, and today is the senior advisor. Previous to working for Tesla, Raymond served in Washington DC as the Commercial Outreach Coordinator for GRID Alternatives, the nation's largest nonprofit solar installer and a partner to Americorps. During his senior year of college, Raymond led a "Solar Spring Break" with GRID Alternatives, then he began his service under a position associated with Americorps' Solarcorps program. Raymond graduated from the University of North Carolina at Chapel Hill with a Bachelor of Science in Environmental Sciences and Engineering in 2016 as a Covenant Scholar. Focusing on photovoltaic integrated energy systems and minoring in geographical information systems. The Biography of Raymond Stanton, RayS of Sunshine to his friends, is about a person who imagines a community. In this community, we have the autonomy to create our own prosperity to the extent it comes efficiently, that is to say, self-sufficiency. Specifically, he is exploring food, water, and energy for a better humanity.

Rachel Morgan is passionate about local agriculture. Her passion and energy for the subject translates into enthusiastic results. Her degree in Consumer Sciences, and Nutrition specialization enable her to provide valuable insights about food systems that are ideal for the end consumers. Her background in family management, retail management, and administration brings strong people, time management, and clerical skills to the project.

## **2. 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 facilities needed will be supplied by existing agricultural animal producers throughout the islands. The end goal is to have a Drought Rapid Response Unit stationed at a partner ranches on each island. When there is enough pasture forages for the entire herd, the system will be used to produce feed for smaller groups of cattle that can be finished and marketed much faster than a typical

grass-fed beef operation. This is possible through the additional availability of live green feed. Through this approach the rancher will improve their ranch's performance which will increase the amount of locally produced beef marketed to the public. When forages are diminished through drought and other factors, those partner ranches can decrease finishing rations from 40 pounds down to a drought ration of 10 pounds to accommodate an additional 150 head of cattle to be sustained, feeding 200 in total.

The first system will be built on location at the Hawaii Meats, located in the Campbell Industrial Park in Kapolei, Oahu. Hawaii Meats will be the first partner producer that will provide facilities, equipment, and space to stage, fabricate, test, and deploy the Drought Rapid Response Unit. Their facilities and pasture land are ideally located in the industrial park giving the project immediate access to all the equipment, personnel, and material resources required.

A partner ranch will be selected for each island. Each partner ranch will have the ability to produce local beef faster, cheaper, and better than before. Each partner ranch will have the ability to reduce their finishing rations and provide drought rations to their larger herds on demand. In the event that another ranch shows a greater need for the feed, the system can be mobilized to the ranch in need. With operational start-up and feed harvest in 7-10 days.

## **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.

#### **Dedicated Project Staff**

| <b>Position</b>         | <b>Responsibility &amp; Supervision</b>                                                                                                                                                                                                                                                        |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Project Director</b> | Oversees project from inception to completion. Manages Systems Director, Project Administrator, and Contractors. Oversees All Quality Control                                                                                                                                                  |
| <b>Systems Director</b> | Manages and coordinates each system's fabrication, modification, installation, and integration. Assures project design and quality criteria are achieved and are reported to the Project Director. Reports KPI's to the Project Director. Co-Supervises the project with the Project Director. |
| <b>Project</b>          | Provides Administrative support, logistic and operational coordination,                                                                                                                                                                                                                        |

|       |                                                                                                  |
|-------|--------------------------------------------------------------------------------------------------|
| Admin | and project status reporting under the supervision of the Systems Director and Project Director. |
|-------|--------------------------------------------------------------------------------------------------|

**Contractor Staffing**

| Staff Category                                      | Qualifications                                | Supervision                                        | Training                                                            |
|-----------------------------------------------------|-----------------------------------------------|----------------------------------------------------|---------------------------------------------------------------------|
| Trucking - Local RFP Process                        | Current CDL, All Credentials Current          | Supervised through Dispatch                        | Appropriate Driver Safety Training                                  |
| Seed - Mainland RFP Process                         | High Germination and Test Weights Required    | Contracted Farmer in Sacramento Valley, CA         | Appropriate training for Grain Storage and Trans loading Operations |
| Fabrication & Welding - Local RFP Process           | ASME Welding Procedure Qualified              | Supervised by Project Staff and Onsite Inspector   | Certification in Welding, 5 Years Experience, Procedure Qualified   |
| HydroGreen - Agreement for Installation established | Trained Technicians complete installation     | Supervised by Lead Technician and Project Staff    | In house HydroGreen specific training program                       |
| Renewable Energy - Local RFP process                | 3 Years Experience in Solar Installation      | Supervised by Lead Technician and Project Staff    | Company specific training and certification required                |
| Electrical - Local RFP process                      | Licensed Electrician with 10 Years Experience | Supervised Project Staff                           | Appropriate company specific training                               |
| Plumbing- Local RFP process                         | Licensed Plumber with 5 Years Experience      | Supervised Project Staff                           | Appropriate company specific training                               |
| QA/QC                                               | Experienced in QA/QC testing and reporting    | Supervised by Lead Technician and Project Director | Appropriate company specific training                               |

## 2. 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.

| Position         | Name            | Responsibility & Supervision                                                                                                                                                                                                                                                                   |
|------------------|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Project Director | Jonathan Braley | Oversees project from inception to completion. Manages System's Director, Nutrition Director, and Contractors                                                                                                                                                                                  |
| Systems Director | Raymond Stanton | Manages and coordinates each system's fabrication, modification, installation, and integration. Assures project design and quality criteria are achieved and are reported to the Project Director. Reports KPI's to the Project Director. Co-Supervises the project with the Project Director. |
| Project Admin    | Rachel Morgan   | Provides Administrative support, logistic and operational coordination, and project status reporting under the supervision of the Systems Director and Project Director.                                                                                                                       |
| Contractors      | 8               | Provides professional and specialized services to achieve the objectives of the project. Directly supervised by dedicated project staff and company specific technical leads                                                                                                                   |

## 3. Compensation

The applicant shall provide an annual salary range paid by the applicant to the three highest paid officers, directors, or employees of the organization by position title, not employee name.

| Position         | Quarterly Salary                           | Annual Salary  |
|------------------|--------------------------------------------|----------------|
| Project Director | \$15,000 - Bi-Weekly payments of \$2307.70 | \$60,000 Gross |
| Systems Director | \$10,000 - Bi-Weekly payments of \$1538.46 | \$40,000 Gross |
| Project Admin    | \$7,500 - Bi-Weekly payments of \$1250     | \$30,000 Gross |

## VII. Other

**1. 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.

Not Applicable, None

**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, None Required of New Island Feed Inc.

**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.

While the primary purpose is to mitigate the negative effects that drought can have on livestock, the systems present an excellent opportunity for Hawaii's youth and public to learn how applied technology and hydroponics help make local agriculture more sustainable. We intend to invite school groups, local 4-H clubs, and other organizations that are interested to attend "Show and Tell" workshops at the partner ranches. The purpose of the workshops is to educate the next generation of the exciting and modern side of agriculture thus inspiring future agriculturalists in Hawaii.

**4. Future Sustainability Plan**

The applicant shall provide a plan for sustaining after fiscal year 2020-21 the activity funded by the grant if the grant of this application is:

- (a) Received by the applicant for fiscal year 2020-21, but
- (b) Not received by the applicant thereafter.

We intend to apply for the grant every year over the next five years with the goal to produce one Drought Rapid Response Unit per year for each major island. The similar budgets requested in the following years will sustain the project allowing for a statewide drought response program to be fully realized in 5 years.





## BUDGET REQUEST BY SOURCE OF FUNDS

Period: July 1, 2020 to June 30, 2021

Applicant: NEW ISLAND FEED INC.

| 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. Salaries                             | 130,000                         | 0                                                                          | 0                                | 0                                       |
| 2. Payroll Taxes & Assessments          | 13,000                          | 0                                                                          | 0                                | 0                                       |
| 3. Fringe Benefits                      | 1,300                           | 0                                                                          | 0                                | 0                                       |
| <b>TOTAL PERSONNEL COST</b>             | <b>144,300</b>                  | <b>0</b>                                                                   | <b>0</b>                         | <b>0</b>                                |
| <b>B. OTHER CURRENT EXPENSES</b>        |                                 |                                                                            |                                  |                                         |
| 1. Airfare, Inter-Island                | 0                               | 0                                                                          | 0                                | 0                                       |
| 2. Insurance                            | 3,600                           | 0                                                                          | 0                                | 0                                       |
| 3. Lease/Rental of Equipment            | 12,000                          | 0                                                                          | 0                                | 0                                       |
| 4. Lease/Rental of Space                | 0                               | 0                                                                          | 0                                | 0                                       |
| 5. Staff Training                       | 4,000                           | 0                                                                          | 0                                | 0                                       |
| 6. Seed & Supplies                      | 16,000                          | 0                                                                          | 0                                | 0                                       |
| 7. Telecommunication                    | 3,600                           | 0                                                                          | 0                                | 0                                       |
| 8. Utilities                            | 1,200                           | 0                                                                          | 0                                | 0                                       |
| 9 Planning, Design, and Construction    | 30,000                          | 0                                                                          | 0                                | 0                                       |
| 10                                      |                                 |                                                                            |                                  |                                         |
| 11                                      |                                 |                                                                            |                                  |                                         |
| 12                                      |                                 |                                                                            |                                  |                                         |
| 13                                      |                                 |                                                                            |                                  |                                         |
| 14                                      |                                 |                                                                            |                                  |                                         |
| 15                                      |                                 |                                                                            |                                  |                                         |
| 16                                      |                                 |                                                                            |                                  |                                         |
| 17                                      |                                 |                                                                            |                                  |                                         |
| 18                                      |                                 |                                                                            |                                  |                                         |
| 19                                      |                                 |                                                                            |                                  |                                         |
| 20                                      |                                 |                                                                            |                                  |                                         |
| <b>TOTAL OTHER CURRENT EXPENSES</b>     | <b>70,400</b>                   | <b>0</b>                                                                   | <b>0</b>                         | <b>0</b>                                |
| <b>C. EQUIPMENT PURCHASES</b>           | <b>238,000</b>                  | <b>0</b>                                                                   | <b>0</b>                         | <b>0</b>                                |
| <b>D. MOTOR VEHICLE PURCHASES</b>       | <b>72,500</b>                   | <b>0</b>                                                                   | <b>0</b>                         | <b>0</b>                                |
| <b>E. CAPITAL</b>                       | <b>0</b>                        | <b>0</b>                                                                   | <b>0</b>                         | <b>0</b>                                |
| <b>TOTAL (A+B+C+D+E)</b>                | <b>525,200</b>                  | <b>0</b>                                                                   | <b>0</b>                         | <b>0</b>                                |
| <b>SOURCES OF FUNDING</b>               |                                 | Budget Prepared By:                                                        |                                  |                                         |
| (a) Total State Funds Requested         | 525,200                         | <i>Jonathan Braley</i> (808) 634-3730<br>Name (Please type or print) Phone |                                  |                                         |
| (b) Total Federal Funds Requested       | 0                               |                                                                            |                                  |                                         |
| (c) Total County Funds Requested        | 0                               | <i>Jonathan Braley</i> 01-17-2020<br>Signature of Authorized Official Date |                                  |                                         |
| (d) Total Private/Other Funds Requested | 0                               |                                                                            |                                  |                                         |
| <b>TOTAL BUDGET</b>                     | <b>525,200</b>                  | <i>Jonathan Braley, CEO</i><br>Name and Title (Please type or print)       |                                  |                                         |

Applicant: NEW ISLAND FEED INC.

| POSITION TITLE   | FULL TIME EQUIVALENT | ANNUAL SALARY A | % OF TIME ALLOCATED TO GRANT REQUEST B | TOTAL STATE FUNDS REQUESTED (A x B) |
|------------------|----------------------|-----------------|----------------------------------------|-------------------------------------|
| Project Director | 240000               | \$120,000.00    | 50.00%                                 | \$ 60,000.00                        |
| Systems Director | 160000               | \$80,000.00     | 50.00%                                 | \$ 40,000.00                        |
| Project Admin    | 120000               | \$60,000.00     | 50.00%                                 | \$ 30,000.00                        |
|                  |                      |                 |                                        | \$ -                                |
|                  |                      |                 |                                        | \$ -                                |
|                  |                      |                 |                                        | \$ -                                |
|                  |                      |                 |                                        | \$ -                                |
|                  |                      |                 |                                        | \$ -                                |
| <b>TOTAL:</b>    |                      |                 |                                        | 130,000.00                          |

**JUSTIFICATION/COMMENTS:**

The above salaries are competitive considering the skill and experience sets of the team. The proposed salaries are directly proportionate to the level of responsibility, skill, and experience of each project member. While this budget has the team at a 50% time commitment, the team's work philosophy will prevail as each member will contribute their very best to assure the project's

Applicant: NEW ISLAND FEED INC.

| DESCRIPTION<br>EQUIPMENT                          | NO. OF<br>ITEMS | COST PER<br>ITEM | TOTAL<br>COST | TOTAL<br>BUDGETED |
|---------------------------------------------------|-----------------|------------------|---------------|-------------------|
| 4 Section Stainless Steel HydroGreen Grow System  | 1.00            | \$110,000.00     | \$ 110,000.00 | 110000            |
| HydroGreen Grow System Accesories                 | 1.00            | \$30,000.00      | \$ 30,000.00  | 30000             |
| 40' Shipping Containers                           | 3.00            | \$10,000.00      | \$ 30,000.00  | 30000             |
| Transloading Auger Door                           | 1.00            | \$5,000.00       | \$ 5,000.00   | 5000              |
| Water Tank Skids                                  | 1.00            | \$10,000.00      | \$ 10,000.00  | 10000             |
| Roof-top PV System                                | 1.00            | \$10,000.00      | \$ 10,000.00  | 10000             |
| Smartflower Plus                                  | 1.00            | \$35,000.00      | \$ 35,000.00  | 35000             |
| Diesel Powered Generator                          | 1.00            | \$5,000.00       | \$ 5,000.00   | 5000              |
| Electrical, Plumbing, and PV Parts and Accesories | 1.00            | \$3,000.00       | \$ 3,000.00   | 3000              |
| <b>TOTAL:</b>                                     | 11              |                  | \$ 238,000.00 | 238,000           |

**JUSTIFICATION/COMMENTS:**

Each of the above equipment items are essential components of the Drought Rapid Response Unit. The listed equipment represents all the needed components and estimated cost per item.

| DESCRIPTION<br>OF MOTOR VEHICLE                     | NO. OF<br>VEHICLES | COST PER<br>VEHICLE | TOTAL<br>COST | TOTAL<br>BUDGETED |
|-----------------------------------------------------|--------------------|---------------------|---------------|-------------------|
| Ford F-250 Pick Up Truck                            | 1.00               | \$57,500.00         | \$ 57,500.00  | 57500             |
| FlatBed Trailer - 4000 LB Minimum Carrying Capacity | 1.00               | \$15,000.00         | \$ 15,000.00  | 15000             |
|                                                     |                    |                     | \$ -          |                   |
|                                                     |                    |                     | \$ -          |                   |
|                                                     |                    |                     | \$ -          |                   |

|        |   |    |           |        |
|--------|---|----|-----------|--------|
| TOTAL: | 2 | \$ | 72,500.00 | 72,500 |
|--------|---|----|-----------|--------|

**JUSTIFICATION/COMMENTS:**

In order to successfully manage, transport, and stage the materials for the project, a reliable and powerful work truck is needed. The flatbed trailer will be used during the project to transport small equipment and materials. It will then be converted into the back-up power generation trailer with the generator and Smartflower Plus mounted to the trailer structure.

Applicant: NEW ISLAND FEED INC.

| <b>FUNDING AMOUNT REQUESTED</b> |                                                     |                      |                              |                            |                                             |                     |
|---------------------------------|-----------------------------------------------------|----------------------|------------------------------|----------------------------|---------------------------------------------|---------------------|
| <b>TOTAL PROJECT COST</b>       | <b>ALL SOURCES OF FUNDS RECEIVED IN PRIOR YEARS</b> |                      | <b>STATE FUNDS REQUESTED</b> | <b>OTHER SOURCES FUNDS</b> | <b>FUNDING REQUIRED IN SUCCEEDING YEARS</b> |                     |
|                                 | <b>FY: 2018-2019</b>                                | <b>FY: 2019-2020</b> | <b>FY:2020-2021</b>          | <b>FY:2020-2021</b>        | <b>FY:2021-2022</b>                         | <b>FY:2022-2023</b> |
| PLANS                           | 0                                                   | 0                    | 3000                         | 0                          | 3000                                        | 3000                |
| DESIGN                          | 0                                                   | 0                    | 6000                         | 0                          | 6000                                        | 6000                |
| CONSTRUCTION                    | 0                                                   | 0                    | 21000                        | 0                          | 21000                                       | 21000               |
| SALARIES                        | 0                                                   | 0                    | 144300                       | 0                          | 144300                                      | 144300              |
| CURRENT EXPENSES                | 0                                                   | 0                    | 40400                        | 0                          | 40400                                       | 40400               |
| MOTOR VEHICLES                  | 0                                                   | 0                    | 72500                        | 0                          | 0                                           | 0                   |
| EQUIPMENT                       | 0                                                   | 0                    | 238000                       | 0                          | 307500                                      | 307500              |
| <b>TOTAL:</b>                   | <b>0</b>                                            | <b>0</b>             | <b>525200</b>                | <b>0</b>                   | <b>522200</b>                               | <b>522200</b>       |

**JUSTIFICATION/COMMENTS:**

Each of the above items are essential to successfully completing the Drought Rapid Response Unit. The listed costs represents all the items required for the project. In developing the first of its kind, more expenses are incurred to capture continuous improvements and develop optimizations. Additionally, initial purchases of assets will be used to aid in the construction and operation of future units.

**GOVERNMENT CONTRACTS, GRANTS, AND / OR GRANTS IN AID**

Applicant: NEW ISLAND FEED INC.

Contracts Total: -

|    | <b>CONTRACT DESCRIPTION</b> | <b>EFFECTIVE DATES</b> | <b>AGENCY</b> | <b>GOVERNMENT ENTITY<br/>(U.S. / State / Haw / Hon / Kau / Mau)</b> | <b>CONTRACT VALUE</b> |
|----|-----------------------------|------------------------|---------------|---------------------------------------------------------------------|-----------------------|
| 1  | None                        | NA                     | NA            | NA                                                                  | NA                    |
| 2  |                             |                        |               |                                                                     |                       |
| 3  |                             |                        |               |                                                                     |                       |
| 4  |                             |                        |               |                                                                     |                       |
| 5  |                             |                        |               |                                                                     |                       |
| 6  |                             |                        |               |                                                                     |                       |
| 7  |                             |                        |               |                                                                     |                       |
| 8  |                             |                        |               |                                                                     |                       |
| 9  |                             |                        |               |                                                                     |                       |
| 10 |                             |                        |               |                                                                     |                       |
| 11 |                             |                        |               |                                                                     |                       |
| 12 |                             |                        |               |                                                                     |                       |
| 13 |                             |                        |               |                                                                     |                       |
| 14 |                             |                        |               |                                                                     |                       |
| 15 |                             |                        |               |                                                                     |                       |
| 16 |                             |                        |               |                                                                     |                       |
| 17 |                             |                        |               |                                                                     |                       |
| 18 |                             |                        |               |                                                                     |                       |
| 19 |                             |                        |               |                                                                     |                       |
| 20 |                             |                        |               |                                                                     |                       |