

Speaker Won Pat <speaker@judiwonpat.com>

Messages and Communications Speaker Won Pat <speaker@judiwonpat.com> Thu, Sep 15, 2016 at 9:35 AM To: Guam Legislature Clerks Office <clerks@guamlegislature.org> 9/15/2016 9/14/2016 Guam State Clearing House Ref: Department of Agriculture; SAI#16008161205Y 33-16-2021 Forwarded message From: Melissa Tayama <melissa.tayama@guam.gov> Date: Wed, Sep 14, 2016 at 1:12 PM Subject: FEDERAL GRANT APPLICATION: SAI# 16008161205Y To: Speaker Won Pat <speaker@judiwonpat.com> Buenas yan Hafa Adai Madam Speaker, Please see attached documents for your review regarding the Department of Agriculture's federal grant application. Si yu'us Ma'ase' Melissa Tayama Grant Specialist: Guam State Clearinghouse OFFICE OF THE LIEUTENANT GOVERNOR P.O. BOX 2950 Hagatña Guam 96932 W: (671) 475-9384 E: melissa.tayama@guam.gov http://gsc.guam.gov ា Office of the Governor of Guam. ninger Sin teres angerneter Ş Ricardo J. Bordallo Governor's Complex, Adelup, Guam 96910 Tel: (671) 472-8931 • Fax: (671) 477-4826 • governor.guam.gov 🚰 Eddle Baza Calvo 🛛 🚺 Øeddlebazacalvo 🚺 Øgovernorcalvo 🛛 📓 governorolguam Ufisinan I Etmås Ge'helo'Gi Liheslaturan Guåhan Office of Speaker Judith T. Won Pat, Ed.D.

Ufisinan I Etmås Ge'helo'Gi Liheslaturan Guàhan Office of Speaker Judith T. Won Pat, Ed.D. Kumiten Idukasion Tinakhelo', Kottura, Laibirihan Pupbleko siha yan Asunton Famalao'an 155 Hesler Place, Suite 201, Hagatna, Guam 96910 Tel: (671) 472-3586 Fax: (671) 472-3589 www.guamlegislature.com / speaker@judiwonpat.com

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2 attachments

DOAg SAI#16008161205Y.pdf 2652K

B SPKR.pdf 372K

33-16-QO2) Office of the Speaker Judith T. Won Pat. Ed.D.

Date: **Received By:** 

2021

# **GUAM STATE CLEARINGHOUSE**



P.O. Box 2950 Hagåtna, Guam 96932 Tel: (671) 475-9380 Website: <u>www.gsc.guam.gov</u> Email: <u>clearinghouse@guam.gov</u> **EDDIE BAZA CALVO** I Maga'låhen Guahan

**RAY TENORIO** I Segundu Na Maga'låhen Guahan

Kate G. Baltazar Administrator

September 14, 2016

HONORABLE JUDITH T. WON PAT, ED. D. Speaker gi I Mina'Trentai Tres Na Liheslaturan Guåhan 155 Hesler Place Hagåtña, Guåhan 96910

**Ref:** Department of Agriculture; SAI#16008161205Y

Hafa Adai Madam Speaker,

This letter is to respectfully notify you that the Guam State Clearinghouse (GSC) has received a federal grant application from the Department of Agriculture (DOAg). The GSC has accepted the application, assigned the State Application Identifier (SAI) 16008161205Y and has initiated the process for an intergovernmental review. An abstract of the project is provided below.

Grantor: U.S. Department of Interior, Fish and Wildlife Service

## Grant Title/

Project Title: Cooperative Endangered Species Conservation Fund

**Details:** The Guam DOAg submitted a federal grant application requesting for \$311,075.00 to monitor and manage the population growth of the Rail (Ko'Ko') bird and the Micronesian Kingfisher (Sihek) on Rota, CNMI. Funds for this program will assist in establishing a captive breeding and release program for the Sihek and Ko'Ko birds. The budget will provide he program with personnel along with fringe benefits, travel, equipment, supplies, and contractual services.

Start Date:	10/01/2016
End Date:	09/30/2017
Federal Grant:	\$311,075.00

GSC conducts intergovernmental reviews and solicits comments through electronic communication and this notice is sent to you as a part of the review process. A digital copy of the grant proposal is attached for your perusal. Please submit any comments you may have pertaining to this proposal to Melissa Tayama by **September 26, 2016** via email at melissa.tayama@guam.gov.

Dangkolo Na Si Yu'os Ma'åse',

Kate G. Baltazar Administrator MMT



# Department of Agriculture Dipåttamenton Agrikottura

163 Dairy Road, Mangilao, Guam 96913

300-7965/7966; Fax 734-6569 300-7973/7972; Fax 734-8096 300-7965 **735-0294/0281; Fax 734-6569** 300-7976; Fax 734-0111 300-7974 472-1426; 475-1427; Fax 477-9487



Matthew L.G. Sablan Director

> Jessie B. Palican Deputy Director

Edward J.B. Calvo Governor

Raymond S. Tenorio Lt. Governor Director's Office Agricultural Dev. Services Animal Health **Aquatic & Wildlife Resources** Forestry & Soil Resources Plant Nursery Plant Inspection Facility

August 05, 2016

#### Memorandum

To: Administrator, Guam State Clearinghouse

From: Director, Department of Agriculture

Subject: Project Application and Concurrent Review for FY 2017 Avicultural Management of Guam Rail (Ko'Ko') and Micronesian Kingfisher (Sihek)

Hafa Adai! Submitted for concurrent review and clearance is the Grant Application for the project entitled, "Avicultural Management of Guam Rail (Ko'Ko') and Micronesian Kingfisher (Sihek)" in the amount of \$311,075.00.

We look forward to your approval so that we may continue our efforts to ensure Guam's birds do not become extinct. Should you have any questions, please contact DAWR Chief, Mr. Celestino F. Aguon, or Wildlife Biologist, Mrs. Laura Duenas, at 735-0294/81.

MATTHEW L.G. SABLAN







**GUAM STATE CLEARINGHOUSE** 

P.O. Box 2950 Hagåtna, Guam 96932 Tel: (671) 475-9380 Website: www.guamclearinghouse.com Email: clearinghouse@guam.gov EDWARD J.B. CALVO I Maga 'låhen Guahan

RAYMOND S. TENORIO I Segundu Na Maga'låhen Guahan

KATE G. BALTAZAR Administrator

		Grantee Agreement Curren	t Date 8/05/16
Name of Grant	Guam-ES-2017, F	Y2017 Avicultural Management of Guam rail (Ko'ko') and Microne	esian Kingfisher (Sihek
Agency Na	ime Guam Ag	griculture	
Divisio	on Name Divisio	on of Aquatic and Wildlife Resources	
SAI Number		Grant Award Number D12AP00	)329
Grantor Na	ume US Depa	artment of Interior, Fish and Wildlife Service	
Grant Amount	\$311,075	Grant Start Date 10/01/16 Grant En	d Date 09/30/2017
Whereas the C	Whe iuam State Clearingho	s entered into by the Guam State Clearinghouse and the Agency mention ereas I Maga'låhen Guahan is the grantee of all federal grants. ouse is the Government of Guam's Single Point of Contact for all Federa ropriations, advances, direct Federal development and other Federal func-	l aid programs, grants,

am State Class

Printed Name Matthew L.G. Sablan

Director of Agency or Authorized Representative\* \*Authorized Representative indicated on the GSC- Notice of Intent to Apply

Kate G. Baltazar, Administrator of the GSC



# GUAM STATE CLEARINGHOUSE

P.O. Box 2950 Hagåtna, Guam 96932
Tel: (671) 475-9380
Website: www.guamclearinghouse.com
Email: clearinghouse@guam.gov

**EDWARD J.B. CALVO** I Maga'låhen Guahan

RAYMOND S. TENORIO I Segundu Na Maga'låhen Guahan

#### Grant Project Application Notice of Intent to Apply for Federal Assistance GSC FORM REVISED 03/21/2012

	Guam State Clearinghouse Use Only
	Date Received: 65 10 110
	Received By: Mel Tayama
	SAI Number: 160061412051
Type of Application 🔀 New Grant*	Continuing Grant** Supplemental Grant** Other*
A.) DUNS Number 855023235	B.) Date Aug 5, 2016
C.) Applicant/Department Name	Department of Agriculture
D.) Division	Division of Aquatic and Wildlife Resources
E.) Applicant Address	63 Dairy Road
F.) Applicant/Department Point of C	Contact Information
Contact Person Name Celestino F	F. Aguon Phone Number 671-735-0294
E-mail Address tinoaguon@gmail	il.com
G.) Due Date to Federal Agency July	H.) Federal Funds a.) Grant \$311,075.00
I.) Non-Federal, Matching Funds	b.) Other
a.) Local 0	
b.) In-Kind 0	J.) TOTAL FUNDS \$311,075.00
c.) Other 0	
K.) CFDA/Federal Program Name	15.615 Cooperative Endangered Species Conservation Fund
L.) Federal Agency Name	US Department of Interior, Fish and Wildlife Service
M.) Federal Agency Address	911 11th Avenue, Portland, OR 97232
1	Page 1 of 2

Page 1 of 2 \* Proceed to Question Section O. \*\*Proceed to Section N - ONLY APPLICABLE TO CONTINUING AND SUPPLEMENTAL GRANTS.

N.) For Continuing or Supple a.) Initial Grant Per	riod October 1	, 2016 to September 30, 2017	
b.) Guam State Cle	earinghouse SAI Number		
		( 2017	
O.) Has the Federal Funding .			
o.) has the rederal runding :	Agency been notified:	₹ YES	
P.) During which Fiscal Year	will this program be impleme	ented? FY 2017	
<ol><li>If the project requires location</li></ol>	al funding in addition to the f	ederal funding requested, please specifically id	lentify source and rational
	n an		
N/A			
R.) This program is:	Budgeted - Please iden	tify legal budget authority	
X	Non-Budgeted		
.) Will this program require t	he hiring of additional emplo	oyees? Is YES, please provide the number of em	plovees (both existing and
			proyees (both existing and
now) and justification	Procession and a second s	The second secon	
now) and justification	YES - Esixting 4	New 1 NO	
new) and justification.	YES - Esixting 4	The second secon	ician is needed to
new) and justification.	YES - Esixting 4	New 1 NO	ician is needed to
new) and justification.	YES - Esixting 4 ologist and three technicians needs of the captive breeding	New 1 NO	tic and Wildlife Resources
new) and justification. Currently there is one bi meet the maintenance r	YES - Esixting 4 ologist and three technicians needs of the captive breeding	New 1 NO	tic and Wildlife Resources
new) and justification.	YES - Esixting 4 ologist and three technicians needs of the captive breeding ncies that would be affected s application	New 1 NO	tic and Wildlife Resources, h/Department of
new) and justification.	YES - Esixting 4 ologist and three technicians needs of the captive breeding ncies that would be affected s application	New       1       NO         Index by this program. One additional techning program and increase productivity.         Department of Agriculture, Division of Aquation Bureau of Budget and Management Researce Administration/General Services Agency         See attached Grant Narrative and supporting	tic and Wildlife Resources, h/Department of g grant application
new) and justification.	YES - Esixting 4 ologist and three technicians needs of the captive breeding ncies that would be affected s application ummary with supporting ng: a.) Does this applicat	New       1       NO         Index by this program. One additional techning program and increase productivity.         Department of Agriculture, Division of Aquates and Sureau of Budget and Management Researce Administration/General Services Agency         See attached Grant Narrative and supporting documents.	tic and Wildlife Resources, h/Department of
new) and justification.	YES - Esixting 4 ologist and three technicians needs of the captive breeding ncies that would be affected s application ummary with supporting ng: a.) Does this applicat	New       1       NO         Image: Second Sec	tic and Wildlife Resources h/Department of g grant application
new) and justification.	YES - Esixting 4 ologist and three technicians needs of the captive breeding ncies that would be affected s application ummary with supporting ug: a.) Does this applicat b.) Will this application c.) Is enabling legisla	New       1       NO         Image: Second Sec	tic and Wildlife Resources h/Department of g grant application YES 🔀 NO YES 🔀 NO
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SIGNATURE

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Date Au

Aug 5, 2016



# Department of Agriculture Dipåttamenton Agrikottura

163 Dairy Road, Mangilao, Guam 96913



Edward J.B. Calvo Governor

Raymond S. Tenorio Lt. Governor Director's Office Agricultural Dev. Services Animal Health **Aquatic & Wildlife Resources** Forestry & Soil Resources Plant Nursery Plant Inspection Facility 300-7965/7966; Fax 734-6569 300-7973/7972; Fax 734-8096 300-7965 **735-0294/0281; Fax 734-6569** 300-7976; Fax 734-0111 300-7974 472-1426; 475-1427; Fax 477-9487

Matthew L.G. Sablan Director

> Jessie B. Palican Deputy Director

July 14, 2016

Ms. Kathy Hollar Chief U.S. Fish & Wildlife Service 911 NE 11<sup>th</sup> Avenue Portland, OR 97232-4181

# Re: F16AS00283 – FY 2017 Avicultural Management of Guam Rail (Ko'Ko') and Guam Micronesian Kingfisher (Sihek)

Hafa Adai! Please find attached the Grant Application for the project entitled, "Avicultural Management of Guam Rail (Ko'Ko') and Guam Micronesian Kingfisher (Sihek)," in the amount of \$311,075.00.

Should you have any questions, please contact Chief of DAWR, Mr. Celestino F. Aguon, at (671) 735-0294/81, or via email, at <u>tinoaguon@gmail.com</u>.

Sincerely,

**MATTHEW L.G. SABLAN** 

Attachment(s):

## OMB Number: 4040-0004

Application for Federal Assista	ance SF-424	
* 1. Type of Submission:  Preapplication  Application	* 2. Type of Application: X New Continuation	* If Revision, select appropriate letter(s):  * Other (Specify):
Changed/Corrected Application	Revision	
* 3. Date Received: Completed by Grants.gov upon submission.	4. Applicant Identifier:	
5a. Federal Entity Identifier:		5b. Federal Award Identifier:
State Use Only:		
6. Date Received by State:	7. State Application	Identifier:
8. APPLICANT INFORMATION:		· · · · · · · · · · · · · · · · · · ·
*a Legal Name: Guam Department	of Agriculture	
* b. Employer/Taxpayer Identification Nun 980018947	nber (日N/TIN):	* c. Organizational DUNS: 8550232350000
d. Address:		
* Street1: 163 Dairy Road Street2: * City: Mangilao	j	
County/Parish:		
* State:		GU: Guam
Province:		
* Country: * Zip / Postal Code: 96913		USA: UNITED STATES
e. Organizational Unit:		
Department Name:		Division Name:
Agriculture		Aquatic and Wildlife Resources
f. Name and contact information of pe	rson to be contacted on ma	atters involving this application:
Prefix: Mr.	* First Name	2 Celestino
Middle Name: F.		
* Last Name: Aguon Suffix:	]	
Title: Division Chief	1 	
Organizational Affiliation:		
* Telephone Number: 671-735-0294	a - a	Fax Number:
* Emal: tinoaguon@gmail.com		

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Application for Federal Assistance SF-424				
16. Congressional Districts Of:				
* a Applicant GU-001. * b. Program/Project GU-001				
Attach an additional list of Program/Project Congressional Districts if needed.				
Add Attachment Delete Attachment View Attachment				
17. Proposed Project:				
* a Start Date: 10/01/2016 * b. End Date: 09/30/2017				
18. Estimated Funding (\$):	<u></u>			
*a. Federal 311,075.00				
* b. Applicant 0.00				
*c State 0.00				
* d. Local 0.00				
* e. Other 0.00				
* f. Program Income 0.00				
*g. TOTAL 311,075.00				
<ul> <li>b. Program is subject to E.O. 12372 but has not been selected by the State for review.</li> <li>c. Program is not covered by E.O. 12372.</li> <li>* 20. Is the Applicant Delinquent On Any Federal Debt? (If "Yes," provide explanation in attachment.)</li> <li>Yes X No</li> <li>If "Yes", provide explanation and attach</li> <li>Add Attachment Delete Attachment View Attachment.</li> <li>21. *By signing this application, I certify (1) to the statements contained in the list of certifications** and (2) that the statements herein are true, complete and accurate to the best of my knowledge. I also provide the required assurances** and agree to comply with any resulting terms if I accept an award. I am aware that any false, fictitious, or fraudulent statements or claims may subject me to criminal, civil, or administrative penalties. (U.S. Code, Title 218, Section 1001)</li> <li>*** The list of certifications and assurances, or an internet site where you may obtain this list, is contained in the announcement or agency specific instructions.</li> </ul>				
Authorized Representative:				
Prefix: Mr. * First Name: Matthew				
Middle Name: L.G.				
*Last Name: Sablan				
Suffix:				
* Tite: Director				
* Telephone Number: 671-300-7970 Fax Number:				
* Emai: matt.sablan12@yahoo.com				
* Signature of Authonized Representative:				
* Emai: matt.sablan12@yahoo.com				

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				SECTION A - RUDGET SUMMADY			OMB Number: 4040-0006 Expiration Date: 01/31/2019
	Grant Program	Cotology 26 To 4					
	Function or Activity	Catalog of Federal Domestic Assistance	Estimated Unobligated Funds	ligated Funds		New or Revised Budget	
	(a)	Number (b)	Federal (c)	Non-Federal	Federal	Non-Federal	Total
÷	FY 2017 - Avicultural Management for Guam Rail (Ko'ko') and Micronesian Xingfisher (Sihek)		0.00	U S	₩ ₩	(1) 00.0	(9) \$ 311,075.00
N							
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4							
ъ,	Totals		\$	\$	\$ 311,075.00	65	\$ 311,075.00

**BUDGET INFORMATION - Non-Construction Programs** 

OMB Number: 4040-0006

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Standard Form 424A (Rev. 7- 97) Prescribed by OMB (Circular A -102) Page 1

Standard Form 424A (Rev. 7- 97) Prescribed by OMB (Circular A -102) Page 2

Authorized for Local Reproduction

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		SECTION	SECTION C - NON-FEDERAL RESOURCES	AL RESOU	RCES		
	(a) Grant Program		(b) Applicant	ant	(c) State	(d) Other Sources	(e)TOTALS
œ.	FY 2017 - Avicultural Management for Guam Rail (Ko'ko') and Micronesian Kingfisher (Sihek)	1 (Ko'ko') and	•	0.00	0.00	69	*
9.							
10.							
11,							
12	12. TOTAL (sum of lines 8-11)		\$	\$		\$	8
		SECTION	SECTION D - FORECASTED CASH NEEDS	D CASH N	EEDS		
<u>1</u> 3	13. Federal	<b>Total for 1st Year</b> \$ 311,075.00	1st Quarter	arter 311,075.00	2nd Quarter	3rd Quarter	4th Quarter
14	14. Non-Federal	\$					
15.	15. TOTAL (sum of lines 13 and 14)	\$ 311,075.00	\$	311,075.00		\$	\$
	(a) Grant Program	SECTION E - BUDGET ESTIMATES OF FEDERAL FUNDS NEEDED FOR BALAN ant Program FUTURI	DERAL FUNDS I	VEEDED FO	OR BALANCE OF THE PROJECT FUTURE FUNDING PERIODS	PROJECT PERIODS (YEARS)	
			(b)First	Ť	(c) Second	T	(e) Fourth
16.	PY 2017 - Avicultural Management for Guam Rail (Ko'ko') and Micronesian Kingfisher (Sihek)	1 (Ko'ko') and	\$	0.00	0.00	\$ 0.00	\$
17.							
18.							
19.							
20.	TOTAL (sum of lines 16 - 19)		\$	\$		\$	\$
		SECTION F	SECTION F - OTHER BUDGET INFORMATION	ET INFORN	IATION		
22	21. Direct Charges:		22.	22. Indirect Charges:	narges:		
23.	23. Remarks:						

# **WSFR Section 7 Evaluation Form - PHASE 1**

To be completed by Grantee

[Note: If more space is needed for responses, attach additional sheets, or set up this form to accommodate your responses. Space provided after each evaluation element will expand as needed. After the evaluated and signed, submit a pdf copy with the grant application.]

Originating Person: <u>Celestino Aguon</u> State/Agency: <u>Guam Department of Agriculture, Division of Aquatic</u> and Wildlife Resources\_ Date: <u>July 13, 2016</u>

- 1. Grant Number and Project Title: Avicultural management for Guam rail (Ko'ko') and Micronesian kingfisher (Sihek)

   Grant Start Date: October 1, 2016

   Grant End Date: September 30, 2017
- 2. County project(s) will occur in: <u>Guam</u>

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- 3. Section, township, and range (or latitude and longitude): Mangilao, Guam
- 4. Federally Listed/Proposed/Candidate species and critical habitat present and occurring within 1 mile of the project(s) area: (If the list is extensive you may attach a table.)

Listed: Guam rail (Gallirallus owstoni) and Micronesian kingfisher (Todiramphus cinnamominus)

5. CHARACTERIZE THE FULL RANGE OF ACTIONS THAT WILL BE CONDUCTED (Be as specific as possible.)

Describe the project actions. Provide a map (or maps) of the project location, and include (overlay/mark) site-specific species and critical habitat occurrences. When describing project actions, here are some factors to consider: area size (acres, miles) of the project footprint; timing of activity (what months of the year; what's the frequency and intensity [how many visits; duration per visit]; what is the full duration of the project; will there be machinery used (helicopters, ground véhicles, mechanized tools and gear, etc); will action result in modification of the area (e.g., cutting/removal of vegetation for trails or survey lanes) and to what extent; state if and what herbicide will be used and the application regime.

For in-water work, consider the types, frequency and duration, and schedule [timing] of activities, number of persons in the water, gear/equipment that may be used (including boats), depths at which activities will occur, is work in water column only or will it also be on underlying substrate.

If there are no field-based activities, what is the nature of the proposed actions?

Reproduction of Guam rails and Micronesian kingfishers to ensure genetic stability of the populations and eventual release into the wild will occur at the Guam Department of Agriculture's Division of Aquatic and Wildlife Resources captive breeding facility in Mangilao, Guam. The project is all year long and continuous throughout the grant period and into the future (as funding allows). Birds will be paired based on genetic qualifications and allowed to raise their chicks until such time that they must be pulled from the parents to allow for newer clutches. When parent rearing cannot occur, eggs will also be incubated and chicks hand-reared to ensure survival of the offspring. Machinery to be used will be ground maintenance tools such as brush cutters and lawn mowers to maintain the yard, power and hand tools to maintain cages. Incubators and hatchery units will be used as well in the event of incubation and hand-rearing. No modification of the area will take place during this grant. No herbicide will be used in the captive breeding facility.

#### 6. DESCRIBE WHAT THE PROJECT AIMS TO ACCOMPLISH

(Will there be (direct or indirect) benefits and of what nature to listed or candidate species or designated critical habitat?)

This project's goal is to increase the number of Guam rails and Micronesian kingfishers in captivity and to produce an adequate number of birds to be released into predator controlled locations in the wild, eventually delisting the species once wild populations are considered sustainable.

# STATE: Territory of Guam PROJECT NO.: E-4-TW Segment 8

## **SECTION 6 PROJECT NARRITIVE FOR FY 2017 FUNDING**

# PROJECT TITLE: AVICULTURAL MANAGEMENT FOR KO'KO' AND SIHEK

May 17, 2017

Division of Aquatic and Wildlife Resources Department of Agriculture, Government of Guam 163 Dairy Road, Mangilao, Guam US 96913

(671) 735-0294 (Voice)

population is approximately 130 birds with 11 on Guam. The Guam staff has not had any difficulties breeding kingfishers. This species is covered under a Species Survival Plan level Yellow through the AZA.

The DAWR captive breeding facility has 22 breeding pens and 130 holding pens for ko'ko', three breeding and 10 holding pens for sihek, and 10 holding pens for åga. The åga pens can also be used to house sihek. The diet preparation, record keeping, egg incubation, hand-rearing, and quarantine for the birds take place at the Wildlife Lab, which is also the location of the staff and maintenance equipment.

#### 8. <u>Project Need:</u>

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The living population of the ko'ko' range from 120-170 birds. Due to the initial success of captive propagation, an introduction program of ko'ko' to Rota, CNMI, was initiated in 1989 to preserve wild behaviors and genetic diversity, and to serve as a source of birds for eventual reintroduction to Guam. Captive reared ko'ko' have also been successfully reintroduced to a snake-controlled locale on Northwest Field (previously known as Hunting Area 50) and Cocos Island, both on Guam. A continuous supply of ko'ko' produced in captivity is needed to support the introduction program on Rota and for reintroductions to Guam such as the Guam National Wildlife Refuge and/or the Habitat Management Unit in Northwest Field. Reproducing ko'ko' is also crucial in maintaining gene diversity. The Rota population appears to be taking hold as current surveys have detected unbanded birds, pairs and families. The population is also expanding from the release locations. As a majority of reproduction for the Guam rail is on Guam, DAWR maintains the breeding data and all transactions for the Guam Rail SSP studbook.

Both the sihek and ko'ko' SSPs are level Yellow that require full participation from institutions. Since the majority of captive ko'ko' are on Guam, the AZA's Population Management Center at the Lincoln Park Zoo, Chicago, has requested Guam be active in the Master Planning. DAWR has agreed to this commitment however not on an annual basis as is required by US zoological facilities.

Initially, wild caught sihek adapted reasonably well to captivity but most parent-reared offspring were lost in the nest prior to the implementation of hand rearing techniques. There are approximately 150 individuals in captivity with 90% of the population in US mainland zoos. GDAWR currently has eleven sihek, ten males and three females and are very closely related. The sihek breeding program is improving however factors limiting reproductive success such as premature mortality of adult birds, incompatibility and aggression, rising levels of infertility, a decline in the number of fertile eggs that hatch. and continual exposure to avian tuberculosis in extensive avian collections is still problematic within the mainland zoos. Fortunately, the sihek have an inclination for breeding on Guam and the listed issues are not apparent. A captive breeding and release program on Guam for the sihek similar to that of the ko'ko' program is needed for recovery (in concert with snake-control). This will complement mainland cooperators by producing enough sihek to begin releases into the wild. With the success of ko'ko' and åga releases in snake-controlled locations on Guam as well as the success of the Guam captive breeding program, sihek releases on Guam is possible. Decisions to release sihek on Guam or in other locations should be a collaborative effort between the USFWS, GDAWR and partnering AZA. Also, establishing non-essential experimental populations of sihek on other islands within Micronesia are currently under review.

#### 9. <u>Objectives:</u>

Guam Avicultural Management of Ko'ko' and Sihek, E-4-TW-7

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- 1. Breed ko'ko' and sihek to meet production objectives. Select individual ko'ko' for reproduction on Guam by culling birds with the highest mean kinship until the correct number of breeding pairs is attained (18 breeding pairs). This method of selection not only increase the genetic diversity of the captive flock but also produce birds for release that have both low inbreeding coefficients as individuals and high gene diversity as a group. Sihek selection for pair formation will be based on mean kinship of individuals.
- 2. Maintain breeding pens with moderate amounts of vegetation. Monitor pairformation, egg laying and hatching of ko'ko' and sihek. Ko'ko' breed yearround therefore maintenance activities around breeding pens, such as lawn mowing, will be conducted when chicks are at least 10 days old to minimize disturbance to the breeding pairs. Ko'ko' chicks will be removed from parents at 30 days of age so successive broods will be raised by adults. Sihek chicks will remain with parents for approximately three months unless double clutching is warranted. No ground maintenance will be allowed near cages of nesting sihek.
- 3. Maintain captive sihek on Guam by feeding locally caught lizards as the main component to their diet. Order crickets from off-island and a mealworm colony will be maintained at the Wildlife Lab. Offer live hermit crabs to sihek for enrichment.
- 4. Limit hand-rearing of sihek chicks by assisting parents in supplemental feeding of chicks in the nest.
- 5. Train new DAWR technician at an AZA facility that houses both ko'ko' and sihek. Training will correspond with the breeding season to give staff exposure to the needs of breeding birds as well as artificial incubation and chick-rearing of both altricial and precocial chicks. New staff will also attend the Egg Incubation Course through the AZA if not done so already.
- 6. Maintain commitment to the AZA's SSP for the ko'ko' and sihek. Continue commitments with the AZA regarding Guam Rail and Micronesian Kingfisher Master Planning at AZA's Population Management Center. Send Laura Duenas to the PM 2000 course offered by the AZA to increase her role in the breeding of the Guam rail. It is necessary to increase the capacity at DAWR as the sihek release program gains momentum.
- 7. Maintain or improve facilities that house project staff members in support of endangered species recovery.
- 8. Contract Kevin Brink from the University of Hawaii, Hilo/USG8 Hawaii to analyze the ko'ko' captive breeding program data set. Dr. Brink currently has the data set and is familiar with the captive breeding program, which is required to accomplish this objective.

#### 12. Key Staff:

Laura Barnhart Duenas (Wildlife Biologist II) -130 days; John Quenga (Wildlife Technician II)- 145 days, Daniel Cruz (Wildlife Technician II) - 145 days, Lillian Taijeron (Wildlife Technician II) - 145 days, Wildlife Technician I – 160 days, support

## 16. <u>Budget:</u>

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BUDGET CATEGORIES			
Salaries			\$128,993.00
Benefits			\$57,851.00
Overtime			\$500.00
Contractual			\$48,000.00
	veterinary contract captive breeding data	\$5,000.00	
	analysis	\$40,000.00	
	generator fuel contract	\$1,000.00	
	generator maintenance	\$2,000.00	
Travel			\$20,700.00
	Micronesian kingfisher SSP		
	meeting (LD)	\$4,000.00	
	Population Management 2000 training		
	(LD)	\$4,500.00	
	Kevin Brink for data anaylsis		
	x 2 visits	\$12,200.00	
Supplies			\$28,271.00
	Guam rail food	\$5,000.00	
	sihek lizards	\$19,000.00	
	insects (crickets and		
	mealworms)	\$3,686.00	
	boots and rain gear	\$585.00	
Equipment			\$500.00
	Dog food grinder	\$500.00	-
Utilities		-	\$2,500.00
Indirect Costs			\$23,760.00
Total			\$311,075.00

# 17. **Project Duration:** Fiscal year 2017.

# 18. <u>State Share (Including Source Funding) and Federal Share Costs:</u>

State: 0% Federal: 100%