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**INITIAL ENVIRONMENTAL EXAMINATION
IEE RDMA SO 486-003
Avian Influenza and Emerging Infectious Diseases
(AI/EID)**

PROGRAM/ACTIVITY DATA:

Country Code-SO: 486-003
SO Name: SO3, Increased Effective Responses to Human Immunodeficiency Virus (HIV)/
Acquired Immune Deficiency Syndrome (AIDS) and Infectious Diseases
Country or Region: Regional Development Mission for Asia (RDMA)
Activity Name: Avian Influenza and Emerging Infectious Diseases

Funding Begin: October 1, 2005 **Funding End:** September 30, 2016
LOP Amount: \$97,654,000 **Sub-Activity Amount:** N/A

IEE Prepared by: Thitima Klasnimi, Office of Public Health **Date:** August 8, 2013
IEE Amendment (Y/N): Y **Date of Original IIE Approved:** May 17, 2006 (ANE 06-67)
Date of IIE Amendment 2 Approved: November 14, 2007 (ANE 08-10)
Date of IIE Amendment 3 Approved: May 25, 2010 (ANE 10-98)

ENVIRONMENTAL ACTION RECOMMENDED: (Place X where applicable)

Categorical Exclusion:	<input checked="" type="checkbox"/>	Deferral:	<input type="checkbox"/>
Positive Determination:	<input type="checkbox"/>	Negative Determination:	<input checked="" type="checkbox"/>
With Conditions:	<input checked="" type="checkbox"/>	Exemption:	<input type="checkbox"/>

This Amendment 4 represents an update to the original IEE approved on May 17, 2006 (ANE 06-67); Amendment 2 approved on November 14, 2007 (ANE 08-10); and Amendment 3 approved on May 25 2010 (ANE 10-98). This amendment (1) extends the current funding end date from September 30, 2014 to a new funding end date September 30, 2016; (2) increases LOP Amount from \$88,129,000 to \$97,654,000; and (3) expands the program activities. The new end date corresponds to the end date projected in the amended AAD for Avian and Pandemic Influenza and Emerging Infectious Diseases (approved by the Mission on April 5, 2013). The scope and nature of all activities as approved in the original IEE and amendments remain the same.

A. Background and Activity Description

Amendment 4 incorporates new activities — the role of land use change as a driver of disease emergence and climate change through modeling development. In October 2012, RDMA's Office of Public Health and Regional Environment Office put forward a joint proposal in response to Economic Growth, Education and Environment (E3) Bureau's call for mission submissions for global climate change integration pilots. The RDMA proposal outlined an activity to investigate the role of land use change as a

driver of both disease emergence and climate change. Specifically, the activity will develop modeling products capable of valuing the disease regulating role of well-functioning ecosystems, complementing other ecosystems services valuations and enabling actionable economic justifications for reduced impact natural resource management and land utilization strategies. Activities are not expected to carry negative environmental implications. E3/Global Climate Change has transferred approximately \$2 million of FY 2012 Sustainable Landscapes funds to RDMA for this program. This amount contributes to a portion of LOP amount increase, while the remainder will be to extend and expand activities already identified in the original and/or amendments of the IEE.

The key objectives of the proposed award are to:

- Build an algorithm capable of characterizing risk of disease emergence as a function of land use, enabling assignment of avoided damages valuations given appropriate field data inputs;
- Based on this algorithm, develop a field-tested quantitative model capturing gender sensitive emerging infectious disease-related health savings as a function of land use;
- Develop a gender-sensitive tool kit for communicating the emerging infectious disease-associated health impacts of differing land use options;
- Establish a center of excellence fostering additional research, analysis, and cross-disciplinary partnerships considering health impacts of land utilization; and
- Translate model products and outcomes to an audience of policy makers and civil society advocates empowered to utilize data in furtherance of strengthened public health and climate change mitigation goals.

The proposed activity represents an innovative, science-driven approach to development challenges, leveraging advances in molecular diagnostics and mathematical modeling. The work envisioned employs technological solutions to foster breakthroughs on key infectious disease and climate change challenges.

B. Discussion of Environmental Impacts

USAID RDMA's "SO 3, Increased Effective Responses to HIV/AIDS and Other Infectious Diseases" programs previously received a **Categorical Exclusion** under its predecessor "SO 498-022 Increase Effective Regional Response to HIV/AIDS and Other Infectious Diseases." Emerging infectious diseases activities under SO3 are primarily the provision of technical assistance and training to improve capacity on prevention and combating existing and newly emerging strains of avian and pandemic influenza. Activities build upon the foundation established in previous years across the following pillars: human and animal infectious disease surveillance and response, behavior change communications, strategic information, and development of public private partnerships. These activities do not have an impact on the natural or physical environment and were approved for a **Categorical Exclusion** per 22 CFR 216.2 (c)(2)(i).

As noted above, the activities under emerging infectious diseases also include support for response activities that involve contact with and disposal of contaminated animal waste, and treatment activities that include infection control for suspected human and animal cases. The emerging infectious diseases activities also support surveillance activities that involve limited storage, use, and disposal of medical supplies, equipment, lab equipment and contaminated sharps, as well as generation of biological waste. The outbreak response activities also potentially involve limited procurement and use of pesticides/disinfectants, which may have significant adverse impacts on the environment. These activities

were approved for a **Negative Determination with Conditions** as approved in the original IEE. The mitigation conditions of program implementation include: (1) biological waste management training for animal and health care workers and laboratory technicians in standardized protocols ensuring proper handling and disposal; and (2) training on the support for the procurement of items required for proper safety precautions and disposal to ensure maximum safety and minimal impact on the environment.

C. Recommended Environmental Actions

This Amendment 4 will include the program expansion on the role of land use change as a driver of disease emergence and climate change. The expanded *Land Use Change and Disease Emergence* program activities will primarily include developing desktop modeling, toolkits, academic research and analysis using existing data sets, historical information, scientific publications and other credible, relevant information thereby making recommendations from its findings to better inform policy makers and civil society advocates on public health challenges and climate change mitigation. These activities will not have an impact on the natural or physical environment and are recommended for a **Categorical Exclusion** per 22 CFR 216.2 (c)(2)(iii).

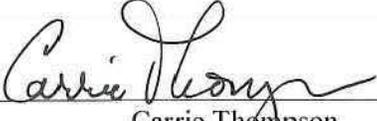
D. Revisions

If during implementation, project activities are considered outside of those described in this Categorical Exclusion, an IEE or an amended Request for Categorical Exclusion shall be submitted. Pursuant to 22CFR216.3(a)(9), if new activities are added and/or information becomes available which indicates that activities to be funded by the Project might be “major” and the Project’s effect “significant,” this determination will be reviewed and revised by the Implementing Partner, in collaboration with the project’s Agreement Officer’s Representative, and submitted to the Mission Environmental Officer and Bureau Environmental Officer for approval and, if appropriate, an environmental assessment and other relevant environmental compliance documentation will be prepared.

As noted above, along with avian influenza, the emerging infectious diseases activities are implemented in close coordination with, and follow guidance issued by the USAID Avian and Pandemic Influenza Management and Response Unit in Washington. Given the nature of the diseases that can change quickly, it is anticipated that program adjustment might be required to effectively respond to the situation and in that case, the IEE document will be amended as appropriate.

APPROVAL OF RECOMMENDED ENVIRONMENTAL ACTIONS:

CLEARANCE: IEE for Avian Influenza and Emerging Infectious Diseases, Amendment #4

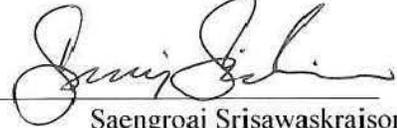
Acting Mission Director Approval:  8/27/2013
Carrie Thompson Date

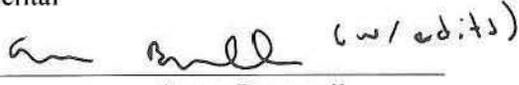
with Edits

Acting Deputy Mission Director Approval:  08/25/2013
Michael Eddy Date

Regional Legal Advisor Approval:  22 Aug 2013
By Edward Ghawssy Richard Nelson (w/ comments) Date

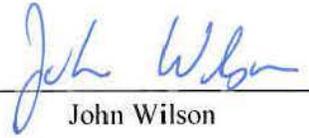
Program Development Officer Approval:  21 AUG 2013
Robert Birkenes Date

Mission Environmental Officer Approval:  08/20/2013
Saengroaj Srisawaskraisorn Date

Regional Environmental Advisor Approval:  8/23/13
Aaron Brownell (w/ edits) Date

Office Director Office of Public Health Approval:  August 20, 2013
Aye Aye Thwin Date

CONCURRENCE:

Bureau Environmental Officer Approval:  Date: Aug 29, 2013
John Wilson Approved:
Disapproved:

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DISTRIBUTION:
Mission Environmental Officer
IEE File