

1. Init. Starting Date (Mo., Day, Yr.) October 1, 1981	PASA PARTICIPATING AGENCY SERVICE AGREEMENT BETWEEN THE AGENCY FOR INTERNATIONAL DEVELOPMENT Department of Health AND Human Services NIH National Institute of Allergy and Infectious Diseases	6. <input checked="" type="checkbox"/> PASA ORIGINAL <input type="checkbox"/> PASA AMENDMENT
2. Projected Completion Date (Mo., Day, Yr.) September 30, 1986		7. PASA Number BNE-0165-P-HZ-1106-00
3. Category <input checked="" type="checkbox"/> TDY <input checked="" type="checkbox"/> ASSIGNED	5. Project Number and Title 298-0165 Epidemiology and Control of Arthropod-Borne Diseases in Egypt and Israel	8. Country/AID/W Office NE Regional
4. Duration of Funding <input checked="" type="checkbox"/> CURRENT YEAR <input checked="" type="checkbox"/> FORWARD FUNDING		9. Type <input checked="" type="checkbox"/> GRANT <input type="checkbox"/> LOAN <input type="checkbox"/> COUNTRY FINANCED
		10. Year FY 19 81/82

11. FUNDING			
A. CITATIONS	(1) Appropriation Number 72- 1111037	(2) Allotment Number 137-62-298-00-67-11	(3) PIO/T.Obligation Number 298-3-0165-6217516
B. FOR PARTICIPATING AGENCY	(1) Initial or Current \$1,560,000	(2) Change (+ or -) -	(3) New Total \$1,560,000
C. RETAINED FOR AID DIRECT DISBURSEMENT	(1) Initial or Current -	(2) Change (+ or -) -	(3) New Total -
D. TOTAL AMOUNT OBLIGATED (Blocks B + C)	(1) Initial or Current \$1,560,000	(2) Change (+ or -) -	(3) New Total \$1,560,000
E. PRINCIPAL COST COMPONENTS OF (Block B)	(1) Salaries, Differential and Benefits \$18,115	(2) Transportation Including Per Diem \$25,969	(3) Miscellaneous \$1,515,916
			(4) Overhead -

12. Statement of Purpose

A. OBJECTIVE

298-0165

The purpose of this PASA between A.I.D. and DHHS, National Institute of Allergy and Infectious Diseases (NIAID) is to develop and administer a cooperative research project to characterize the epidemiology and epizootology of three arthropod-borne diseases (Rift Valley Fever, Malaria, and Leishmaniasis) in Egypt and Israel. The project will examine the geographic scope of certain selected arthropod-borne diseases in man, identify the various foci within this range, determine domestic and wild animal reservoirs if any, determine the insect vectors involved, and quantify the disease problem from a public health viewpoint in order to develop scientifically-based control strategies. Efforts will be directed toward broadly-based serologic surveys to determine the magnitude of the problem and isolation and identification of the specific pathogens.

13. GOVERNING PROVISIONS: Pursuant to the General Agreement dated March 3, 1965 between AID and the DHHS, the Agency named above agrees to provide the services outlined in Block 12 amplified as needed by Appendix A, unless otherwise authorized by AID, all services shall be of U.S. origin. Any appendices attached hereto are considered part of this PASA.

14. Signatures

<p>NAME <u>John H. Bryant, M.D.</u></p> <p>TITLE/OFFICE <u>Director Office of International Health</u></p> <p>DATE <u>September 24, 1981</u></p>	<p>NAME <u>J. William Auer</u></p> <p>TITLE/OFFICE <u>CHIEF, INTERNAT'L &amp; INTERAGENCY BRANCH CONTRACT MANAGEMENT, AID</u></p> <p>DATE <u>September 21, 1981</u></p>
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15. Appendices
- APPENDIX A - SCOPE OF WORK
  - APPENDIX B - BUDGET PLAN
  - APPENDIX C - USE OF AID PERSONNEL/FACILITIES
  - APPENDIX D - SUBCONTRACTING
  - OTHER/REFERENCE \_\_\_\_\_

16. Negotiating Officers

AID: CM/SOD/IIA - E. R. Williams

AGENCY: NIAID/CMB: LSPollack LSPollack  
DHHS/OIH: HLerner/AHigh HLerner

PARTICIPATING AGENCY SERVICE AGREEMENT  
BETWEEN

THE AGENCY FOR INTERNATIONAL DEVELOPMENT AND  
Department of Health & Human Services, NIH,  
National Institute of Allergy & Infectious Diseases

ORIGINAL  AMEND  
NO. \_\_\_\_\_

PASA NO.  
RNE-0165-P-HZ-1106-0  
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1981/82/83

To achieve these goals, the following steps will be taken: (a) A system of field facilities will be established for the study of the entomological and epidemiological aspects of the designated diseases. These facilities will include mobile field laboratories in Israel and Egypt. The Egyptian mobile field station will have responsibility for studies throughout Egypt from the Nile Delta through the length of the Nile Valley. Special emphasis will be placed on the Canal Areas, the Sudan border and the area of Lake Nasser. The Israel mobile field station will concentrate its studies along the Sinai border and in the Negev Desert. (b) Central laboratory facilities in Cairo and Jerusalem will be improved to support and evaluate field-based activities.

Funds provided herein support services to be performed during FY 1982. Additional funds will be provided by subsequent amendment(s).

B. SCOPE OF WORK

The research program will be administered by NIAID. Separate contract arrangements will be made by NIAID to Ain Shams University in Egypt and Hebrew University in Israel with the duties and responsibilities of each unit specified in their workscopes.

Specific activities under this agreement include:

1. Administration: NIAID will have responsibility for evaluating, coordinating and administering the cooperative research identified below.
  - (a) NIAID will assign a U.S. based technical project officer and a NIAID Scientific Technical Assistant to coordinate the program, insure a high level of scientific merit and productivity and facilitate cooperation between the two units. The Project Officer and Technical Assistant will be assisted by NIAID Staff. This PASA Budget includes funds for estimate travel and per diem for the Project Officer and the NIH Technical Assistant each to visit Egypt and Israel twice annually for monitoring of projects and to facilitate the cooperative aspects of the program. Funds will also provide travel and per diem for an annual visit to Egypt and Israel by the NIAID Contracting Officer to review financial procedures associated with the project.

NIAID will have overall responsibility for conduct of this project, assignment of duties and responsibilities, and implementation of workscope. The Contracting Officer will have the authority to modify the workscope and alter project protocols to facilitate completion of stated goals within the objectives of the general project and with the concurrence of USAID.
  - (b) NIAID will also assist the two host institutions in identifying appropriate U.S. Scientists to bring to bear expertise not available in Egypt or Israel. These Scientists will also be utilized to provide training in new techniques and the interchange of ideas.

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- (c) NIAID will recruit a U.S. Entomologist and Virologist for full time at Ain Shams University. Round-trip expenses for these two scientists and their spouses will be provided. The scientists will receive orientation at the NIH and be fully prepared to conduct studies in entomology, parasitology and virology working alongside Egyptian colleagues at Ain Sham's University. Their scope of work will be to assist Ain Shams staff complete the tasks listed below.
- (d) NIAID will organize up to five conferences at which scientists from the cooperating units, consultants, and scientists from countries with similar problems can discuss recent findings and achievements in addition to broader aspects of the problems of arthropod-borne diseases. This conference may be held in conjunction with a national or international conference on tropical medicine or could be held at independent locations.
- (e) NIAID will direct the project within the final general outline of procedures and implementation schedule:

(1) Host Factors

Prevalence and Incidence of Disease Entities -- This will include: a) a surveillance program to document the occurrence of human cases and map the area of human involvement, and b) serologic surveys of domestic and wild animals throughout suspected zoonotic areas.

Surveillance Program -- This will be coordinated through the central laboratories of the two institutions in Jerusalem and Cairo. Clinicians and nurses supervised by epidemiologists will monitor medical records and enlist the aid of clinic and hospital personnel to report current cases of suspected disease. Following discovery, personnel of the central laboratory will commence in-depth study, collect acute and convalescent sera, and compile complete health records. In cases detected during the acute phase of illness, maximum effort will be made to obtain specimens before treatment to facilitate isolation of pathogens.

Serologic Surveys -- These will be coordinated by the central laboratories through the various field survey teams. Project personnel will visit farming settlements, villages, herdsmen and nomads to obtain human blood samples. Random samples will be appropriate for study of malaria and RVF. Selected samples with emphasis on individuals at greatest risk (e.g., farmers) will be taken for studies of leishmaniasis. Wild and domestic animals will be intensively sampled to determine reservoir hosts of RVF and leishmaniasis.

Serologic tests -- These will be done with specimens from a) humans with diagnosed or suspected infections, b) humans in the survey areas, c) livestock and d) wild animals.

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A wide range of serological tests are available, although not all are applicable to all of the diseases in question. For malaria surveys each blood sample will be divided and processed simultaneously in Cairo and Jerusalem. The Ain Shams group will apply the ELISA and fluorescent antibody (IFA) tests while the Hebrew University group will examine the same samples with a newly developed radio-immunoassay (RIA). These same samples would be tested for evidence of exposure to RVF by the Egyptians and leishmania by the Israelis. This multi-disease analysis of each serum sample promises to yield data of enormous importance to a more thorough understanding of the epidemiological situation.

Isolation and/or Identification of Disease Agents -- Protozoan parasites causing leishmaniasis are normally cultured from lesions and typed by serotyping of secreted factors, measurement of bouyant density of nuclear and kinetoplast DNA or determination of iso-enzyme variants. In addition parasite material may be isolated from infected flies.

Malaria parasites are normally identified from stained blood slides. Plasmodium falciparum is being grown in vitro at both Ain Shams and Hebrew Universities and these techniques may be applied to characterization studies.

Isolation and characterization of the viral agent of RVF requires containment facilities and is currently being conducted by the Ain Shams group in co-operation with the Egyptian Ministry of Health and the U.S. Navy Medical Research Unit No. 3 (NAMRU-3) in Cairo.

(2) Entomological Factors

Identification of Vector Species -- Precise definition of the insect vectors of RVF, malaria, and leishmaniasis remains a major goal of any program designed to describe the epidemiology of these diseases and develop control strategies.

In the Suez Canal Zone, these vectors have not been identified. Direct incrimination will require isolation of organisms from infected insects coupled with epidemiological association of insect population with infections in man or animals.

Mosquito Vectors of Malaria -- Infected mosquitoes may show plasmodial oocysts developing on the gut or sporozoites in salivary glands. Neither stage can be further cultured, but serological tests such as IFA and CSP (circum sporozoite-percipitation) can be used to identify the species of sporozoite found.

Phlebotomine Vectors of Leishmaniasis -- Leishmania may be isolated from pooled flies and cultured in "NN medium."

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**Insect Vectors of RVF** -- Although mosquitoes have long been considered the vectors of RVF and Culex pipiens has been found naturally infected in Egypt, recent assignment of the RVF virus to the Sandfly Fever group has raised the prospects of involvement of phlebotomine and ceratopogonid flies in the transmission of this organism, primarily among domestic and wild animals. Virus may be demonstrated in infected flies by allowing the insects to feed directly on hamsters or by virus growth in tissue culture seeded with material from pooled flies.

**Field Biology of Arthropod Vectors** -- Once vector species have been precisely identified, a series of studies will be initiated to characterize their behavior and bionomics. Patterns of population fluctuation, range of distribution, seasonality, host preferences, flight range, and longevity will be determined for all concerned species.

**Laboratory Biology of Arthropod vectors** -- These studies will proceed in parallel with the field studies and will be conducted at the field and central laboratories. The objective of this phase of the program is to characterize the important biological attributes of the known vector arthropods which influence their ecological adaptations, and enable us to make predictions regarding their success in nature. Specifically, studies will be directed to: 1) rhythms of host-seeking activity, 2) dynamics of host-predilection, and 3) dynamics of feeding, with emphasis on those factors which might contribute to maximizing transmission of pathogenic agents. The ability of these insects to utilize different hosts or host-predilection is important in these studies, since this factor may limit the vector species to specific habitats where the preferred hosts occur.

**Model Focal Areas** -- These studies will be initiated in the second or third year of the proposed project. Following implementation of the surveillance program, serologic surveys, and precise incrimination of vectors, two (2) or possibly three (3) study sites (focal areas) will be selected for intensive study of the ecological interrelationships that affect the maintenance and spread of these diseases. Sites representative of the habitats in which humans become infected will be selected. Sampling of domestic animals and humans in the focal areas will be done at regular intervals throughout the year to monitor changes in the serologic status of these hosts and the occurrence of vector species. Trapping of wild vertebrates will be done to ascertain their role in sustaining these vectors and amplifying the disease. Sampling designs will be adapted to facilitate quantitative management of important host species.

Environmental parameters, particularly temperature, relative humidity, and solar radiation intensity, will be measured in the Model Focal Areas. Measurement of these physical factors in microclimates, e.g. densely vegetated shores of dry river beds, small mammal burrows, etc., will be especially important in understanding the environmental conditions of these insect vector habitats. In

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addition, topographic and hydrological studies will be done. Relationships between these environmental parameters, vector populations, and patterns of disease transmission will be charted.

(3) Implementation of Project

This project will investigate three arthropod-borne diseases simultaneously and, in general, the outline for the three studies are similar. NIH ethic/guidelines will be followed throughout this implementation phase.

Year 1

Serological and parasitological sample surveys will be conducted in the populated areas of Egypt and Israel to determine past or present infection with the organism in question.

Entomological investigations will be initiated to identify the potential arthropod vectors of RVF, malaria, and leishmaniasis.

Years 2, 3, and 4

Longitudinal serological and parasitological surveys will be conducted on human populations at risk in order to chart seasonality of infection and general epidemiological parameters.

Animal surveys will be conducted to determine infection with RVF virus or leishmania in reservoir hosts.

Entomological studies will focus on precise characterization of vector species including longitudinal studies of population dynamics, vector competence, genetics, cytogenetics, and insecticide susceptibility.

Year 5

Serological and parasitological studies will be completed and a clearer understanding of the epidemiology of the subject diseases will be available. Based on in-depth examination of the entomological aspects of transmission, rational, economical, geographical, and biologically feasible control schemes will be developed for regulation of vector species.

- (f) NIAID will provide A.I.D. with a copy for review of the implementation agreement with each University prior to finalization of the agreements.

2) Programs in Egypt

- (a) Ain Shams University will appoint a Principal Investigator (P.I.) who will have primary responsibility for the operation of the unit. The P.I. will direct implementation of designated protocols, oversee recruitment of staff and procurement of supplies and equipment, and insure timely submission of required reports. The P.I. will also promote cooperation among the various participating or interrelated groups in Egypt and insure the ready flow of personnel, information and materials throughout Egypt and the Sinai. He will appoint Project leaders who

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will be senior staff personnel with primary responsibility for their specific project areas. They will oversee the conduct of research in their areas, answer to the P.I. and report program to the P.I.

Participation of the Ministry of Health in the proposed project is critical and is expected at several levels. Senior Ministry staff, for example, should advise on various aspects of epidemiology, serology, entomology and clinical parasitology. Field teams of the Ministry should assist in collection of serological and entomological specimens. The Ain Shams Center has also entered into an agreement with Dr. M. El Alamy, Director of the Qalyub Center for Field and Applied Research (MOH) and Senior Advisor to the new Epidemiology Study Center in the delta. The delta study areas have been subjected to intensive demographic surveys and will provide baseline information useful for in-depth epidemiological studies on the arthropod-borne diseases of concern. This arrangement will provide a unique opportunity to affiliate an Egyptian epidemiology group with a superb international reputation, the Centers for Disease Control and U.S. universities active in Qalyub. The U. S. Naval Medical Research Unit #3 (NAMRU-3) is a Cairo based organization closely allied with the Ain Shams group. Cooperation in studies of RVF are already underway and will continue under this project. These associations should be mutually beneficial and provide valuable opportunities and experience to the Ain Shams group.

- (b) A System of mobile field stations will be established for the study of the entomological and epidemiological aspects of the designated diseases. Special emphasis will be placed on the Canal area, the Sudan border and the area of Lake Nasser. Vehicles will be provided for this purpose.
- (c) Central laboratory facilities at Ain Shams University will be staffed and equipped to undertake the following activities over a five year period.

Studies on Rift Valley Fever (RVF)

- (1) Serological studies shall be conducted on human populations in Egypt and the Sinai to demonstrate the extent of present or previous infections with RVF.
- (2) Domestic and wild animals shall be surveyed to determine levels of non-human infection. Special emphasis shall be placed on isolation of virus from small mammals and description of the transmission cycle within the reservoir population.
- (3) Actual or potential arthropod vectors of RVF shall be identified. Population dynamics, vector competence, and insecticide susceptibility shall be characterized in order to develop a rational control strategy compatible with biological, geographic and economic realities.

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- (4) The role of phlebotomine sandflies, if any, in the feral and domestic transmission of RVF shall be determined.

Studies on Malaria

- (1) Serological and parasitological studies shall be conducted on human populations in Egypt to demonstrate the extent of present or previous infection with malaria.
- (2) Actual or potential vectors of malaria shall be identified. Population dynamics, vector competence, and insecticide susceptibility shall be characterized in order to develop control strategies.
- (3) The Red Sea coast shall be carefully monitored for evidence of expansion of populations of Anopheles stephensi. Lake Nasser and the Sudanese border shall be carefully monitored to detect introductions of An gambiae.

Studies on Leishmaniasis

- (1) Entomological studies shall concentrate on determining potential vectors of leishmaniasis, particularly in the oases of the Western Desert and in the Canal area.
- (2) Rodent populations shall be surveyed to determine the presence of leishmanial parasites and/or their susceptibility to infections.
- (3) Egyptian nationals recently returned from Saudi Arabia, Iraq and other Middle East countries where leishmaniasis is endemic shall be surveyed for infections.
- (4) Control strategies to prevent introduction or spread of leishmanial parasites in Egyptian populations shall be developed.

Training

This program shall provide opportunities for support and training of young Egyptians. Training opportunities will be provided at several levels.

(1) Technicians

The lack of well-trained professional technicians remains a major deficiency in the Egyptian bio-medical establishment. This program will provide training and support opportunities for approximately 14 technicians. It is anticipated that many of these will remain as full time staff members at Ain Shams. In addition, technical personnel from the Ministry of Health will receive advanced training in parasitology, virology, entomology and field survey techniques.

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(2) Graduate Students

As a teaching institution, Ain Shams University bears a major responsibility for the education and training of young scientists. This program will support approximately 20 graduate students who will assist in the research effort while working toward advanced degrees. The importance of this opportunity to work on a major research project cannot be minimized and the experience gained will be invaluable.

(3) Post-doctoral Associates

A limited number positions will be available to post-doctoral students who can make a major contribution to the research effort. Both research and clinical doctorates will be given an opportunity to further their training in the specific area of arthropod-borne diseases.

- (d) A detailed implementation protocol will be prepared and submitted to A.ID. and updated on an annual basis.

3. Program in Israel

- (a) Hebrew University will appoint a Principal Investigator (P.I.) who will direct implementation of designated protocols, oversee recruitment of staff and procurement of supplies and equipment, and insure timely submission of semi-annual and annual reports. The P.I. will also work for cooperation among the various participating or interested groups in Israel and insure the ready flow of personnel, information, and materials throughout the country. Several groups within the Hebrew University will be involved in this project. The Kuvim Center for the Study of Tropical and Infectious Diseases will act as overall coordinator of the project. The Department of Zoology of the University will play a particularly important role in the conduct of this project. Within the Hadassah Medical School, The Departments of Protozoology, Virology and Medical Ecology and Social Medicine will also participate. The Centre for the Biological Control of Mosquitoes at Ben Gurion University will serve as the focus for studies along the Sinai border and in the Negev Desert. The Division of Epidemiology and other units of the Ministry of Health will provide advice and support for the conduct of these studies.
- (b) A single mobile field station will be established for the entomological and epidemiological aspects of the research along the Negev Desert. A vehicle and maintenance costs are provided by the project.
- (c) Central laboratory facilities at Hebrew University will be equipped and staffed to undertake the following activities over a five year period.

Studies on Rift Valley Fever (RVF)

- (1) Serological studies shall be conducted on human, wild and domestic

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animal populations in areas of Israel bordering the Sinai to detect any movement of RVF infections into Israeli territory.

- (2) Entomological studies shall be conducted to determine the competence of Israeli mosquitoes and phlebotomine flies for transmission of RVF virus.

Studies on Malaria

Serological studies emphasizing the radio-immunoassay (RIA) technique shall be performed on sera from Egypt provided by the Ain Shams group. Potential vectors in the Negev will be surveyed.

Studies on Leishmaniasis

- (1) Serological and parasitological studies shall be conducted on human populations in Israel and the Negev to demonstrate the extent of present or previous infection with leishmaniasis.
- (2) Animal reservoirs of the parasite shall be sampled to determine levels of nonhuman infection.
- (3) Parasites isolated from human and animal sources shall be characterized.
- (4) Actual or potential vectors of Leishmania in Israel and the Negev shall be identified and biologically characterized.

Training

This program shall provide numerous opportunities for support and training of young Israelis. Training opportunities will be provided at several levels.

(1) Technicians

Approximately 2-3 technicians will be trained and supported by this project.

(2) Graduate Students

The Hebrew University, as a teaching institution, bears a major responsibility for the education and training of young scientists. This program will support approximately six graduate students who will assist in the research effort while working toward advanced degrees.

(3) Post-doctoral Associates

Two or three positions will be available for support of post-doctoral students who can make a major contribution to the research effort. Both laboratory and clinically oriented scientists will be given an opportunity to further their training in the specific area of arthropod-borne diseases.

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(d) A detailed implementation protocol will be prepared and submitted and A.I.D. and updated on an annual basis.

C. REPORTS

The Participating Agency shall provide the following reports in English to A.I.D.:

1. Prior to approval of subcontracts with Ain Shams or Hebrew University, copies of the contracting agreements including implementation protocols. (3 copies of each).
2. A semi annual report containing a review of progress from each institution and an overview from NIAID (5 copies of each).
3. Any scientific publications resulting from research work ( 3 copies of each).
4. Financial reports as required.
5. An annual report from each institution reviewing technical progress and findings and reporting on financial status, together with an overview from NIAID reviewing technical progress and an assessment regarding development of cooperative ties and development of field activities in relation to project objectives (5 copies).
6. A final report containing for each university: work accomplished under the project, findings, and public Health implications; for NIAID progress toward collaborative efforts, importance of findings and a financial report ( 15 copies).

D. LOGISTIC SUPPORT

1. Cooperating countries will provide office space and office equipment.
2. NIAID shall make all arrangements for housing utilities/furniture/equipment, international and in-country transportation, secretarial/interpreter services, medical facilities, and use of official vehicles, for Cairo-based American scientists.

E. DUTY POSTS

Cairo, Egypt  
Jerusalem, Israel

F. GUIDANCE AND LIAISON

1. Cooperating Country Liaison Official  
Egypt: Dr. Sherif El Said, Ain Shams University, Cairo  
Israel: Dr. Rachel Galun, Hebrew University, Jerusalem
2. USAID Liaison Officials  
USAID/Cairo: Dr. William D. Oldham, Director, Health Office  
U.S. Embassy, Tel Aviv

APPENDIX B SCOPE OF WORK  PAGE <u>11</u> OF <u>11</u>	PARTICIPATING AGENCY SERVICE AGREEMENT BETWEEN	<input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> AMEND NO. _____
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3. AID/W Liaison Official  
NE/TECH/HPN, Barbara Turner

G. SUBCONTRACTING

NIAID is hereby authorized to enter into non-personal services contracts under NIAID's own contracting authority, not to exceed \$1,479,000 as stipulated in the attached budget, and in accordance with AID Handbook 12, 1C7. a. through f., pages 1-21 and 1-21a.

H. SPECIAL PROVISIONS

1. Access to classified information will not be required by technicians.
2. Dependents will be permitted to accompany long-term technicians.
3. Any clearances and/or waivers that cannot be obtained by NIAID, AID will proceed to obtain relief, if not the agreement will be modified or terminated as mutually agreed upon.

I. OTHER REQUIREMENTS

No international travel originating in the U.S. should be undertaken without prior approval of NE/TECH/HPN and/or CM/SOD/IIA.

J. BILLINGS

Billings should be submitted for payment to A.I.D. on Standard Form 1080 or 1081, together with dates of services rendered and a breakdown of accrued expenses. Submissions should be made on a monthly or quarterly basis with the following identifying data shown on the facesheet: (1) PASA No., (2) Project Name and No., and (3) PIO/T Obligation No. Disbursements will not be made without this identifying information.

Billings for services rendered under this agreement should be addressed to:  
Agency for International Development  
Office of Financial Management  
Washington, D.C. 20523

BUDGET PLAN APPENDIX B PAGE 1 OF 1	PARTICIPATING AGENCY SERVICE AGREEMENT BETWEEN THE AGENCY FOR INTERNATIONAL DEVELOPMENT AND Department of Health & Human Services III, National Institute of Allergy & Infectious Diseases			1. PASA NO.	2. AMENDMENT NO.	3. FISCAL YEAR	
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7. FUNDED BY				4. APPROPRIATION	5. ALLOTMENT	6. AMOUNT CURRENTLY FUNDED	
NE Regional 298-3-0165-621751b				72111037	137-62-298-00-67-1	\$1,560,000	
PRO/T-OBLIG. NO.		AMOUNT	PRO/T-OBLIG. NO.		AMOUNT	PRO/T-OBLIG. NO.	AMOUNT

8. PASA BUDGET PLAN - FUNDING		9 STAFFING				
DESCRIPTION	AMOUNT	NAME AND TITLE	GRADE	PERIOD (PEOPLE DATED MONTHS)	AMOUNT	
SALARIES	\$ 18,115	NIAID Staff	GS			
BENEFITS ( _____ % OF SALARIES)			Administrative Assistant	9/3	6.0	\$ 10,712
DIFFERENTIAL ( _____ % OF SALARIES)			Clerk	6/2	6.0	7,403
LEAVE FACTOR (TDYs ONLY) ( _____ % OF SALARIES & BENEFITS)			Technical Assistants - Subcontracts		4.0	
TRAVEL (EXPLAIN BELOW)	25,969 1/		Entomology (Anopheles) - \$5,000			
PUBLICATIONS	5,000		Entomology (Culex) (2) - 10,000			
ANNUAL JOINT CONFERENCE	30,000		Virology - 5,000			
SUB-CONTRACTS - Tech. Assistants	75,000 2/		Serology - 5,000			
SUB-CONTRACTS - Universities	1,404,000		Epidemiology (2) - 10,000			
OTHER:	1,916 3/		U.S. Investigator - 40,000			
OVERHEAD <input type="checkbox"/> SALARIES & BENEFITS PERSONNEL COSTS <input type="checkbox"/> ALL COSTS						
TOTAL (INCLUDES _____ TO BE FUNDED BY FUTURE PASA ADJUSTMENTS)	\$1,560,000					

EXPLANATORY COMMENTS

- 1/ Estimated round trip travel costs Principal Investigators Egypt/Israel/U.S. @ \$6,000 and Project Officers Washington, D.C./Egypt/Israel (2 trips per year) @ \$16,000. Contracting Officer (one trip per year) \$3969.
- 2/ SUBCONTRACTING: NIAID is hereby authorized to enter into non-personal services contracts under NIAID's own contracting authority for Technical Assistants @ \$75,000, Hebrew University @ \$458,525, and Ain Sham University @ \$945,475, as stipulated above and in accordance with A.I.D. Handbook 12, 1C7, a through f, pages 1-21 and 1-21a.
- 3/ Supplies and materials

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APPENDIX D"Subcontracting"

- a. As used herein, the term "subcontracting" includes purchase orders.
- b. Subcontracting by the participating agency with AID funds must be specifically authorized in the PASA or RSSA involved or, separately requested in writing and approved by the AID Agreements officer prior to negotiations. Accordingly, participating agencies are required to clearly indicate in their budget submission to AID for a particular PASA or RSSA the extent of anticipated subcontracting. Where such subcontracting arises during performance an amended budget and amendment to the PASA or RSSA to cover subcontracting may be necessary prior to entering into a subcontract. All subcontracting under PASA and RSSA agreements using AID funds is subject to the provisions on contracting as stated in AID Handbook 12, 1C7. a. through f. pages 1-21 and 1-21a.
- c. AID authorized subcontracting shall be undertaken using the participating agency's own contracting authority and its own contracting regulations. Such authority shall be cited in the subcontract. When subcontracts are negotiated, the circumstances permitting negotiation shall also be cited. AID may, when it is in the best interest of the Government, authorize a participating agency to subcontract with an individual for personal services abroad under a subcontract in which the participating agency may, absent its own authority to contract for personal services, cite Section 636(a) (3) of the Foreign Assistance Act of 1961, as amended (FAA). In such event, the circumstance permitting negotiation is 41 U.S.C. 152(c)(15). Where the FAA is used as authority, the participating agency shall also use applicable AID contracting regulations."