

ANNEXES

- Annex 1. Project Design Matrix (version 2)**
- Annex 2. Project Activity List**
- Annex 3. Evaluation Grid**
- Annex 4. List of Dispatched Experts**
- Annex 5. List of Equipment provided by JICA**
- Annex 6. Project Management Cost provided by JICA**
- Annex 7. List of Counterpart Training in Japan**
- Annex 8. List of Local Training**
- Annex 9. List of Publication**
- Annex 10. Local Agent List**
- Annex 11. List of Counterparts of the Project**
- Annex 12. List of Facility and Equipment Provided by NIHE**
- Annex 13. Budget Allocation by NIHE**
- Annex 14. Content of BSL-3 laboratory management meeting**
- Annex 15. Content of the meeting between Materials and Medical Equipment Dept. and Biosafety Dept.**
- Annex 16. List of Project Visitors**
- Annex 17. List of Newspaper Article about JICA-NIHE Project**
- Annex 18. Avian Influenza Situation in Vietnam (Dec.2003 - Oct.2008)**
- Annex 19. HTC (High Tech Center) BSL-3 Laboratories Practice Report**
- Annex 20. Mobile BSL-3 Laboratory Practice Report**
- Annex 21. Numbers of registered researchers and actual users working with BSL-3 pathogens**
- Annex 22. Schedule of the Terminal Evaluation Team**
- Annex 23. Interviewees by the Team**

Project title: Capacity Development for NIHE to Control Emerging and Re-emerging Infectious Diseases in the SRV

Target Area: National Institute of Hygiene and Epidemiology (NIHE) Target group: BSL-3 Related Staff in NIHE

Narrative Summary	Objectively Verifiable Indicators	Means of Verification	Important Assumptions
<p>Super Goal Emerging and re-emerging diseases are controlled in the Socialist Republic of Vietnam.</p>	<p><u>Number of human cases of any emerging or re-emerging diseases in Vietnam is minimized.</u></p>	<p><u>Report/record of MOH</u></p>	
<p>Overall Goal BSL-3 Laboratories are fully functioned and maintained in NIHE</p>	<p><u>Numbers of registered researchers and actual users working with BSL-3 pathogens as well as number of diagnosis/investigation/research performances increase.</u></p>	<p><u>Report/record of NIHE</u></p>	<p><u>Policies of the Socialist Republic of Vietnam on control of emerging and re-emerging infectious diseases do not change significantly.</u></p>
<p>Project Purpose NIHE has capacity to examine highly hazardous transmissible pathogens properly in the BSL-3 laboratories that meets international standard.</p>	<p>The system of biosafety management is established and properly implemented and all necessary records are being produced according to the regulations.</p>	<p>Report/record of NIHE</p>	<p><u>Staff and budget are properly allocated for operation and maintenance of BSL-3 laboratories.</u></p>
<p>Outputs</p>			
<p>1 Biosafety regulation/system in NIHE, which includes management and operation of BSL-3 laboratories is established.</p>	<ul style="list-style-type: none"> • Institutional Biosafety Regulation of NIHE is developed. • Staff involved in biosafety laboratory works take training of new biosafety regulation. 	<p>Document Training record</p>	<p><u>BSL-3 laboratories are installed in NIHE by grant aid.</u></p>
<p>2 The Capacity of NIHE to operate and maintain BSL-3 laboratories is established.</p>	<ul style="list-style-type: none"> • Establishment of operation and maintenance division, function of the division and job description of the staff are authorized by NIHE. 	<p>Document (developed manuals, records, etc)</p>	
<p>3 The Capacity of NIHE to conduct laboratory testing of highly hazardous transmissible pathogens in BSL-3 laboratories is established.</p>	<ul style="list-style-type: none"> • All necessary documents are developed and implemented. Ex. Maintenance procedure documents, maintenance documents (register, records, etc.), preventive (periodical) maintenance records 	<p>Training record</p>	

Activities		Inputs		Trained NIHE staff members do not leave.	
		Japan	Vietnam		
<p>1 Biosafety regulation/system in NIHE which includes management and operation of BSL-3 laboratories is established.</p> <p>1-1. <u>Propose revision on national biosafety regulation</u></p> <p>1-2. Develop Institutional Biosafety Regulation in NIHE</p> <p>1-3. Establish and strengthen Biosafety Department which manage the implementation of biosafety regulation</p> <p>1-4. Strengthen Biosafety Committee</p> <p>1-5. Develop Laboratory Operation Manual and Standard Operational Procedure (SOP)</p> <p>1-6. Organize biosafety training courses</p> <p>2 The Capacity of NIHE to operate and maintain BSL-3 laboratories is established.</p> <p>2-1. Establish Operation and Maintenance Division within Biosafety Department.</p> <p>2-2. Conduct training of operation and maintenance of BSL-3 laboratories for maintenance/laboratory staff.</p> <p>2-3. Establish regular maintenance system for BSL-3 laboratories.</p> <p>2-4. Establish logistics system for spare parts and repair works for BSL-3 laboratories.</p> <p>3 The Capacity of NIHE to conduct laboratory testing of highly hazardous transmissible pathogens in BSL-3 laboratories.</p> <p>3-1 Develop training manual of testing high pathogenic viruses in BSL-3 laboratories.</p> <p>3-2 Conduct training on biosafety for technical staff based on the training manual.</p> <p>3-3. Review training manual regularly after training courses.</p> <p>3-4. Improve laboratory practice under supervision for laboratory testing for diagnosis.</p> <p>3-5. Develop and implement SOP for testing highly transmissible pathogens in BSL-3 laboratories.</p> <p>3-6. Strengthen management system for registration of highly pathogenic agents.</p>	<p>Experts</p> <p>(1) Chief Advisor</p> <p>(2) Virology</p> <p>(3) Coordinator</p> <p>(4) Biosafety</p> <p>(4) Laboratory Testing</p> <p>(5) Laboratory Maintenance</p> <p><i>Other necessary fields.</i></p> <p>Full-time project staff</p> <p>(1)Secretary</p> <p>(2)Interpreter</p> <p>Training in Japan</p> <p>(1)Biosafety</p> <p>(2)Laboratory Testing</p> <p>(3)Laboratory Maintenance</p> <p>Other necessary fields.</p> <p>Equipment and materials</p> <p>(1)Laboratory Equipment for Training</p> <p>(2)Equipment for Laboratory Maintenance</p> <p>(3)Other equipment mutually agreed upon as necessary.</p> <p><i>* The equipment to be provided will be subjected to change due to the budgetary conditions of the Japanese side.</i></p> <p>Local cost</p> <p>(1)Training textbooks, and materials</p> <p>(2)General expenses of the project office</p>	<p>Counterpart officers</p> <p>(1) Director</p> <p>(2) Coordinator</p> <p>(3) Chief of Biosafety Department</p> <p>(4) Chief of Virology Department</p> <p>(5) Chief of Medical Material and Equipment Division</p> <p>(6) Chief of Department of Administration</p> <p>(7) Chief of Department of Training and Research Management</p> <p>(8) Secretary</p> <p>Project staff</p> <p>(1) Staff of Biosafety Department</p> <p>(2) Staff of Virology Department</p> <p>(3) Staff of Medical Material and Equipment Division</p> <p>(4) Staff of Department of Administration</p> <p>(5) Staff of Department of Training and Research Management</p> <p>Equipment and materials</p> <p>(1)Project Office</p> <p>(2)Vehicle</p> <p>(3)Laboratory Equipment</p> <p>Local cost</p> <p>(1) Building and civil work</p> <p>(2) Public utility (electricity, water, etc)</p>			
					Pre-conditions
					NIHE creates a new department who is in charge of the Project and provides personnel and budget necessary for the Project.

Annex 2.

Project Activity List (Japanese Fiscal Year 2006-2008)

Japanese Fiscal Year 2006

Dispatch of Project Coordinator	20 Jun. 2006
Establishment of JICA project office in NIHE and employment of support personnel	20 Jun.2006
Submission of the application of export permission on the Mobile BSL-3 laboratory based on the Foreign Exchange and Foreign Trade Act of the Ministry of Economy, Trade and Industry	18 Jul. 2006
Dispatch of expert on virology	10 Aug.2006
Establishment of Bio-safety Committee in Ministry of Health	11 Aug.2006
Submission of completion report on renovation of the Mobile BSL-3 laboratory from JICA	21 Aug.2006
Dispatch of chief adviser	11 Sep.2006
Establishment of Bio-safety Dept. in NIHE and appointment of Dr. Nguyen Thanh Thuy as Head of Biosafety Dept.	11 Sep.2006
Submission of letter of guarantee for the Mobile BSL-3 Laboratory from NIHE Director to JICA H.Q.	20 Sep.2006
Prime minister's office approval of the project document	21 Sep.2006
Signing of Exchange Note (E/N) on the grant aid for NIHE	28 Sep.2006
Approval of export permission on the Mobile BSL-3 laboratory based on the Foreign Exchange and Foreign Trade Act of the Ministry of Economy, Trade and Industry	29 Sep.2006
Signing of consulting services agreement with Nihonsekkei Inc. and Fujita Planning Co., LTD on grant aid for NIHE	05 Oct.2006
Delivery of the Mobile BSL-3 Laboratory from Yokohama Port	14 Oct.2006
Arrival of the Mobile BSL-3 Laboratory in Haiphong Port	26 Oct.2006
Submission of A4 form (Equipment request form for technical cooperation) from Ministry of Planning and Investment	01 Nov.2006

Annex 2.

Arrival of the Mobile BSL-3 laboratory in NIHE	04 Nov.2006
Dispatch of experts to conduct laboratory maintenance	12 Nov-25 Nov.2006
Installation of the Mobile BSL-3 laboratory in NIHE	15 Nov.2006
Assignment of two maintenance staffs in the Mobile BSL-3 Laboratory of Bio-safety Dept.	20 Nov.2006
Installation of medical equipment in NIHE provided by JICA	12 Dec.06 - 05 Mar.07
Establishment of Bio-safety Committee in NIHE	02 Jan.2007
The Mobile BSL-3 laboratory opening ceremony	09 Jan.2007
Installation of the water stills & sterilizers system in Bio-safety Dept.	07 Mar.2007
Conduct JCC (Joint Coordinating Committee) meeting	15 Mar.2007
Conduct "safe prayer" ceremony on the grant aid for NIHE	28 Mar.2007

Japanese Fiscal Year 2007

Commencement ceremony for the NIHE grant aid project	07 May.2007
Launch of influenza virus inspection at the Mobile BSL-3 laboratory	22 May.2007
JARCOM (JICA-Asean Regional Cooperation Meeting) seminar to prevent emerging and re-emerging infectious diseases	19 Jun-21 Jun.2007
Completion of first version of NIHE Bio-safety regulation	24 Jul.2007
Signing of Minutes of Meeting on mid-term evaluation	14 Sep.2007
Confirmation of progress of the project for Apr to Sep 2007	21 Sep.2007
Examination of management of grant aid project by JICA technical advisor	15 Oct.2007
Conduct software component training by the NIHE grant aid project (part I)	26 Nov-15 Dec.2007
Conduct software component training by the NIHE grant aid project (part II)	07 Jan-15 Jan.2008

Annex 2.

Hand-over ceremony for the NIHE grant aid project	15 Jan.2008
Signing of memorandum of collaboration on infectious diseases between NIID (National Institute of infectious diseases) , Japan and NIHE, Vietnam	25 Jan.2008
Conduct training on basic biosafety and use of BLS-3 laboratory (1) (33 trainees)	05 Mar-06 Mar.2008
Conduct training on basic biosafety and use of BLS-3 laboratory (2) (41 trainees)	12 Mar-13 Mar.2008
Opening ceremony for the NIHE grant aid project	24 Mar.2008

Japanese Fiscal Year 2008

Conduct JCC (Joint Coordinating Committee) meeting	14 Apr.2008
Assignment of one maintenance staff in Biosafety Dept.	28 May.2008
Implementation of sterilization of HTC BLS-3 laboratory (L1) (Formaldehyde gas fumigation)	28 May.2008
Implementation of sterilization of HTC BLS-3 laboratory (L2) (Formaldehyde gas fumigation)	05 Jun.2008
Launch of virus inspection at the HTC BSL-3 laboratory	17 Jun.2008
Conduct training on basic biosafety and use of BLS-3 laboratory (3) (18 trainees)	25 Jun-26 Jun.2008
Dispatch of new chief adviser	29 Jun.2008
Conduct training on basic biosafety and use of BLS-3 laboratory (4) (8 trainees)	26 Aug-27 Aug.2008
Conduct biosafety committee meeting	04 Sep.2008
Assignment of two engineers in materials and medical equipment Dept.	08 Oct.2008
Implementation of operation of HTC BLS-3 laboratory (L4)	04 Nov.2008
Completion of second version of NIHE Bio-safety regulation	17 Nov.2008

Annex 3. Evaluation Grid

2. Implementation process	Management system	Counterpart personnel assigned to the Project	X	X	X	
		Decision making process: modification of activities etc.	X	X	X	
		Monitoring of the Project	X	X	X	
		Communication between the Project members	X	X	X	
	Transfer of technology	Relationship with the Japanese partner organizations (JICA and NIID)	X	X	X	
		Relationship with the Vietnamese partner organizations	X	X	X	
		How transfer of technology is implemented	X	X	X	
	Ownership	Participation of NIHE management in the Project	X	X	X	
		Input by the Vietnamese side	X	X	X	
	Others	Participation of Vietnamese project members	X	X	X	
Maintenance of the equipment provided by the Project		X	X	X		
	Other issues in the implementation process	X	X	X		

Five evaluation criteria						
1. Relevance	Necessity	Relevance to the needs of Vietnam since the mid-term evaluation	X	X	X	
		Relevance to the needs of the target group (BSL-3 lab related staff) since the mid-term evaluation	X	X	X	
		Relevance to the national policy of Vietnam since the mid-term evaluation	X	X	X	
	Priority	Relevance to the Japan's development assistance policy to Vietnam since the mid-term evaluation	X	X	X	
		Appropriateness of the Project Purpose, Outputs, its approach, selection of the counterpart organization and the target group	X	X	X	
	Appropriateness as a strategy	Logic between Activities → Outputs → Project Purpose → Overall Goal	X	X	X	
		Comparative advantage of Japan	X	X	X	
		Process of selection of the counterpart organization and the target group	X	X	X	
	Others	Change of political, economic and social environment around the Project	X	X	X	
		Indicator: "The system of biosafety management is established and properly implemented and all necessary records are being produced according to the regulations."	X	X	X	
2. Effectiveness	To what extent the Project Purpose is likely to be achieved	Factors that might obstruct achievement of the Project Purpose	X	X	X	
		Logic between the achievement of the Outputs and the Project Purpose	X	X	X	
	Causality between the Outputs and the Project Purpose	Whether the Important Assumption is applicable. What measures are taken if it is not met. Any other possible Important Assumptions.	X	X	X	

Annex 3. Evaluation Grid

			<p>Other possible Important Assumptions and their effect on the Project</p>	X	X	X	X
3. Efficiency	<p>Achievement of the Outputs</p> <p>Causality between the Activities and the Outputs</p>	<p>Whether the Outputs have been achieved according to the plan Obstacles to the achievement of the Outputs</p> <p>Whether the Activities were sufficient to achieve the Outputs</p> <p>Whether the Inputs were sufficient to achieve the Outputs</p> <p>Whether the Important Assumption is applicable. What measures are taken if it is not met. Any other possible Important Assumptions.</p>	<p>The extent to which the Outputs have been achieved. Obstacles and measures taken</p> <p>Analysis of the Activities and the level of achievement of the Outputs</p> <p>Analysis of the Inputs and the level of achievement of the Outputs</p> <p>Important Assumption: "Trained NIHE staff members do not leave"</p> <p>Other possible Important Assumptions and their effect on the Project</p> <p>Experts (number, technical areas, timing of dispatch)</p> <p>Counterpart training in Japan (number, technical areas, selection of candidates, timing of dispatch, content of training)</p> <p>Equipment provided by the Japanese side (items, number, spec, price, quality, timing)</p> <p>Operational expenses provided by the Japanese side (amount, timing)</p> <p>Counterparts (number, technical areas, position, timing of assignment)</p> <p>Equipment provided by the Vietnamese side (items, number, spec, price, quality, timing)</p> <p>Operational expenses provided by the Vietnamese side (amount, timing)</p> <p>Personnel, equipment, local cost</p> <p>Indicator: "The number of registered researchers and actual users working with BSL-3 pathogens as well as number of diagnosis/investigation/research performances increase."</p> <p>Progress so far. Contributing factors and obstacles; any other factors that were contributed by other than the Project</p> <p>Logic of the Project. Contributing factors and obstacles, and important assumptions.</p> <p>Important Assumption: "Staff and budget are properly allocated for operation and maintenance of BSL-3 laboratories."</p> <p>Other possible Important Assumptions and their effect on the Project</p>	X	X	X	X
4. Impact	<p>To what extent the Overall Goal is likely to be achieved</p> <p>Causality</p>	<p>(Japan side) whether the quantity, quality, timing of the Inputs were appropriate. Whether these were utilized for the Activities.</p> <p>(Vietnam side) whether the quantity, quality, timing of the Inputs were appropriate. Whether these were utilized for the Activities.</p> <p>Whether any inputs that were not utilized. Whether the "BSL-3 laboratories are fully functional and maintained in NIHE" within 5-8 years after the Project period ends.</p> <p>Obstacles to the achievement of the Overall Goal</p> <p>Whether logic between the Project Purpose and the Overall Goal is appropriate</p> <p>Whether the Important Assumptions are still applicable.</p>	<p>Equipment provided by the Japanese side (items, number, spec, price, quality, timing)</p> <p>Operational expenses provided by the Japanese side (amount, timing)</p> <p>Counterparts (number, technical areas, position, timing of assignment)</p> <p>Equipment provided by the Vietnamese side (items, number, spec, price, quality, timing)</p> <p>Operational expenses provided by the Vietnamese side (amount, timing)</p> <p>Personnel, equipment, local cost</p> <p>Indicator: "The number of registered researchers and actual users working with BSL-3 pathogens as well as number of diagnosis/investigation/research performances increase."</p> <p>Progress so far. Contributing factors and obstacles; any other factors that were contributed by other than the Project</p> <p>Logic of the Project. Contributing factors and obstacles, and important assumptions.</p> <p>Important Assumption: "Staff and budget are properly allocated for operation and maintenance of BSL-3 laboratories."</p> <p>Other possible Important Assumptions and their effect on the Project</p>	X	X	X	X

Annex 3. Evaluation Grid

Impact	Unforeseen positive impact	Examples of positive impacts in the counterpart organization Political, institutional, social and cultural impacts • Change of policies, laws, systems, etc. • Technical innovation • Impacts on different social groups (class, ethnic groups, gender, etc.)	X	X	X	X			
	Unforeseen negative impact	Examples of negative impacts in the counterpart organization Political, institutional, social and cultural impacts • Change of policies, laws, systems, etc. • Technical innovation • Impacts on different social groups (class, ethnic groups, gender, etc.)	X	X	X	X			
5. Sustainability	Political sustainability	Political support to the actions against avian influenza and emerging infectious diseases in Vietnam.	X	X	X	X			
	Institutional sustainability	NIHE's organizational structure to maintain the level of the activities and staff allocation after the Project ends. Whether counterpart ownership towards the Project is high	X	X	X	X			
Financial sustainability	Financial sustainability	Budget allocation to the Project by the Vietnam side	X	X	X	X			
	Technical sustainability	Whether the counterparts are likely to remain the same position Whether the counterparts are likely to improve their skills so that they can perform the functions independently after the Project ends. Any plans to perform and functions independently even after the Project ends. - Possibilities of continuing output utilization (regulation, documentation, skills of examination/operation and maintenance) Any contributing factors and obstacles for sustainability	X	X	X	X			
Contributing factors and obstacles for sustainability	Contributing factors and obstacles for sustainability	Activities and list of training financed by Vietnam side Contributing factors and obstacles	X	X	X	X			
	Future plans, vision, suggestions to the Project	Future plans, vision, suggestions to the Project	X	X	X	X			

Annex 4.

List of Dispatched Experts
(Japanese Fiscal Year 2006-2008)

Experts (Japanese Fiscal Year 2006-2008)

No	Name	Expertise	Term
1-1	Mr. Toshio HIDA	Chief Advisor	11 Sep.2006- 12 Apr.2008
1-2	Dr. Tetsuo YONEYAMA	Chief Advisor	29 Jun.2008- 19 Mar.2009
2	Dr. Asao ITAGAKI	Virology	10 Aug.2006- 09 Aug.2008
3	Mr. Kenji IKARI	Project Coordinator	20 Jun.2006- 19 Mar.2009

Short term experts (Japanese Fiscal Year 2006)

No	Name	Expertise	Term
1	Dr. Katsuaki SHINOHARA	Biosafety	12 Nov.2006- 23 Nov.2006
2	Mr. Takayoshi AOYAMA	Laboratory Maintenance (Facilities)	12 Nov.2006- 25 Nov.2006
3	Mr. Hideki MIKI	Laboratory Maintenance (Air Conditions)	12 Nov.2006- 25 Nov.2006
4	Mr. Toshiaki KINOSHITA	Laboratory Maintenance (Safety Cabinet)	16 Nov.2006- 21 Nov.2006
5	Mr. Hatsuji IKEDA	Laboratory Maintenance (Safety Cabinet)	16 Nov.2006- 21 Nov.2006
6	Dr. Katsuaki SHINOHARA	Biosafety	14 Jan.2007- 23 Jan.2007
7	Mr. Takayoshi AOYAMA	Laboratory Maintenance (Facilities)	14 Jan.2007- 27 Jan.2007
8	Mr. Hideki MIKI	Laboratory Maintenance (Air Conditions)	14 Jan.2007- 27 Jan.2007
9	Mr. Hirotaka TAKAGI	Biosafety	25 Mar.2007- 03 Apr.2007

Short term experts (Japanese Fiscal Year 2007)

No	Name	Expertise	Term
1	Mr. Hideki MIKI	Laboratory Maintenance (Air Conditions)	08 Jul.2007- 21 Jul.2007
2	Dr. Katsuaki SHINOHARA	Biosafety	15 Jul.2007- 28 Jul.2007
3	Mr. Takayoshi AOYAMA	Laboratory Maintenance (Facilities)	15 Jul.2007- 28 Jul.2007
4	Mr. Toshiaki KINOSHITA	Laboratory Maintenance (Safety Cabinet)	16 Jul.2007- 21 Jul.2007
5	Mr. Hatsuji IKEDA	Laboratory Maintenance (Safety Cabinet)	16 Jul.2007- 21 Jul.2007
6	Dr. Shigeyuki ITAMURA	Laboratory Training	22 Jul.2007- 04 Aug.2007
7	Mr. Hideki MIKI	Laboratory Maintenance (Air Conditions)	16 Sep.2007- 13 Oct.2007
8	Dr. Katsuaki SHINOHARA	Biosafety	25 Nov.2007- 15 Dec.2007
9	Dr. Shigeyuki ITAMURA	Laboratory Training	06 Jan.2008- 19 Jan.2008
10	Mr. Hirotaka TAKAGI	Biosafety	09 Jan.2008- 19 Jan.2008
11	Mr. Takayoshi AOYAMA	Laboratory Maintenance (Facilities)	13 Jan.2008- 26 Jan.2008
12	Mr. Hideki MIKI	Laboratory Maintenance (Air Conditions)	13 Jan.2008- 26 Jan.2008
13	Mr. Toshiaki KINOSHITA	Laboratory Maintenance (Safety Cabinet)	13 Jan.2008- 18 Jan.2008
14	Mr. Hatsuji IKEDA	Laboratory Maintenance (Safety Cabinet)	13 Jan.2008- 18 Jan.2008
15	Mr. Hideki MIKI	Laboratory Maintenance (Air Conditions)	09 Mar.2008- 15 Mar.2008

Annex 4.

List of Dispatched Experts
(Japanese Fiscal Year 2006-2008)

Short term experts (Japanese Fiscal Year 2008)

No	Name	Expertise	Term
1	Mr. Motohiro OKADA	Laboratory Operarion & Facility Management	25 May.2008- 25 Oct.2008
2	Dr. Shigeyuki ITAMURA	Laboratory Training	01 Jun.2008- 14 Jun.2008
3	Dr. Tsutomu KAGEYAMA	Laboratory Training	01 Jun.2008- 14 Jun.2008
4	Dr. Tetsuo YONEYAMA	Chief Advisor	29 Jun.2008- 19 Mar.2009
5	Dr. Katsuaki SHINOHARA	Biosafety	20 Jul.2008- 02 Aug.2008
6	Mr. Hideki MIKI	Laboratory Maintenance (Air Conditions)	20 Jul.2008- 02 Aug.2008
7	Dr. Tsutomu KAGEYAMA	Laboratory Training	24 Aug.2008- 06 Sep.2008
8	Mr. Hiroataka TAKAGI	Biosafety	28 Sep.2008- 10 Oct.2008
9	Mr. Hideki MIKI	Laboratory Maintenance (Air Conditions)	26 Oct.2008- 07 Nov.2008
10	Dr. Katsuaki SHINOHARA	Biosafety	30 Oct.2008- 07 Nov.2008

Short term experts (Japanese Fiscal Year 2008 - Plan)

No	Name	Expertise	Term
11	Dr. Shigeyuki ITAMURA	Laboratory Training	04 Jan.2009- 16 Jan.2009
12	Dr. Tsutomu KAGEYAMA	Laboratory Training	04 Jan.2009- 09 Jan.2009
13	Mr. Motohiro OKADA	Laboratory Operarion & Facility Management	04 Jan.2009- 24 Jan.2009
14	Dr. Katsuaki SHINOHARA	Biosafety	15 Feb.2009- 27 Feb.2009
15	Mr. Hideki MIKI	Laboratory Maintenance (Air Conditions)	15 Feb.2009- 27 Feb.2009
16	Mr. Motohiro OKADA	Laboratory Operarion & Facility Management	15 Feb.2009- 14 Mar.2009

List of Equipment based on A4 form (Japanese Fiscal Year 2006-2008)

JFY 2006

Medical Equipment from Japan based on A4 form

No.	Item	Maker	Model No.	Q'ty	Unit Price(USD)	Unit Price(Yen)	Price(USD)	Price(Yen)	Date of Installation	Installation Place
1	Safety Cabinet	Airtech Japan	BHC-1306IIA/B3	1		¥2,835,000		¥2,835,000	15 Nov.2006	Mobile BSL-3 Lab
2	BSL-3 Laboratory	Aoki Asunaro	Laboratory & Machine room	1		¥38,546,923		¥38,546,923	15 Nov.2006	Mobile BSL-3 Lab
	Total							¥41,381,923		
				Mar 2007	JICA Rate: 1USD=119.781Yen		\$345,480			

Medical Equipment based on A4 form

No.	Item	Maker	Model No.	Q'ty	Unit Price(USD)	Unit Price(Yen)	Price(USD)	Price(Yen)	Date of Installation	Installation Place
1	Co2 Incubator	Sanyo	MCO-15AC	1	\$3,085		\$3,085		12 Dec.2006	Mobile BSL-3 Lab
2	Test Tube Mixer	Taitec Japan	S-100	1	\$400		\$400		08 Jan.2007	Mobile BSL-3 Lab
3	Micro-centrifuge	Kubota	No.3300	1	\$3,017		\$3,017		08 Jan.2007	Mobile BSL-3 Lab
4	Centrifuge -Standard	Kubota	No.5420	1	\$8,100		\$8,100		05 Mar.2007	Mobile BSL-3 Lab
5	Inverted Microscope	Nikon	TE2000-S/PH-S	1	\$10,400		\$10,400		28 Feb.2007	Mobile BSL-3 Lab
6	86C Freezer	Sanyo	MDF-U53V	1	\$7,620		\$7,620		12 Dec.2006	Mobile BSL-3 Lab
7	Pharmaceutical Refrigerator	Sanyo	MPR-414FS	1	\$4,393		\$4,393		26 Feb.2007	Mobile BSL-3 Lab
8	Laboratory table	Local	1500x750x800	1	\$257		\$257		15 Jan.2007	Mobile BSL-3 Lab
9	Autoclave	Hirayama	HB-305M	1	\$9,436		\$9,436		08 Jan.2007	Mobile BSL-3 Lab
	Total							¥5,594,731		
				Mar 2007	JICA Rate: 1USD=119.781Yen		\$46,708			

Office Equipment based on A4 form

No.	Item	Model No.	Model No.	Q'ty	Unit Price(USD)	Unit Price(Yen)	Price(USD)	Price(Yen)	Date of Installation	Installation Place
1	Photocopier and accessories	Ricoh	Aficio-3025	1	\$4,054		\$4,054		16 Nov.2006	Project Office
2	Computer and application software	HP	DX 2180	3	\$1,610		\$4,830		01 Dec.2006	Project Office
	Total							¥1,064,134		
	Grand Total/Yen						401,072	¥48,040,788		
				Mar 2007	JICA Rate: 1USD=119.781Yen		\$8,884			

List of Equipment based on A4 form (Japanese Fiscal Year 2006-2008)

JFY 2007											(unit:USD)
No	Equipment Name	Maker Name	Model No.	Q'ty	Unit Price	Amount	Date of Installation	Installation Place			
1	Particle Counter and accessories	Met One	GT-521	1	\$4,780	\$4,780	12 Dec.07	Biosafety Dep.			
2	Thermo-Anemometer and accessories	Kanomax	6533	1	\$3,961	\$3,961	18 Jan.08	Biosafety Dep.			
3	UV Meter and accessories	Custom	UVC-254	1	\$1,871	\$1,871	18 Jan.08	Biosafety Dep.			
4	Light Meter and accessories	Standard Electric	2330-LX	1	\$350	\$350	12 Dec.07	Biosafety Dep.			
5	Clean Viewer and accessories	Airtech	ACV-501	1	\$6,400	\$6,400	18 Jan.08	Biosafety Dep.			
6	Chlorine Meter with related reagent and accessories	Extech	CL-200	1	\$586	\$586	12 Dec.07	Biosafety Dep.			
7	Sound Level Meter and accessories	Extech	407736	1	\$529	\$529	12 Dec.07	Biosafety Dep.			
8	Insulation Test Meter and accessories	Yokokawa	MY-40-01	1	\$893	\$893	18 Jan.08	Biosafety Dep.			
9	Autoclave	Tomy	SX-700	1	\$7,760	\$7,760	12 Dec.07	Biosafety Dep.			
10	Low Temperature Freezer	Sanyo	MDF-U53V	1	\$8,300	\$8,300	18 Jan.08	Biosafety Dep.			
11	Filter for MAC-II-31, W400XH50XD400mm	Airtech	CD3052533 (Without LED Indicator)	6	\$292	\$1,752	18 Jan.08	Mobile BSL-3 Lab			
12	Filter/HEPA Filter W305XH610XD150mm	Shinwatech	12CW79J	3	\$662	\$1,986	18 Jan.08	Mobile BSL-3 Lab			
13	Filter/HEPA Filter W305XH305XD150mm	Shinwatech	11CW79J	3	\$452	\$1,356	18 Jan.08	Mobile BSL-3 Lab			
14	Filter/HEPA Filter W610XH610XD150mm	Shinwatech	LCS-W-661P	1	\$804	\$804	18 Jan.08	Mobile BSL-3 Lab			
15	Filter/HEPA Filter W430XH430XD150mm	Shinwatech	LCS-W-001P	1	\$672	\$672	18 Jan.08	Mobile BSL-3 Lab			
	Total					\$42,000					
	Total/Yen					¥4,459,686					
						1USD=106.183Yen					
						(Mar 2008 JICA Rate)					

List of Equipment based on A4 form (Japanese Fiscal Year 2006-2008)

JFY 2008										(Unit:USD)
No	Equipment Name	Maker Name	Model No.	Q'ty	Unit Price	Amount	Date of Installation	Installation Place		
1	Particle Counter and accessories	Met One	A-2400	1	\$23,900	\$23,900	Nov.08 (Plan)	Biosafety Dep.		
	Total					\$23,900				
	Total/Yen					¥2,531,106				
						1USD=105.904Yen				
						(Oct 2008 JICA Rate)				

Annex 5.

List of Equipment provided by JICA (Japanese Fiscal Year 2006-2008)
List of Equipment by project management fund (above 20,000 yen)

JFY 2006		(Unit: VND)									
No.	Item	Model No.	Q'ty	Unit Price(VND)	Price(VND)	Date of Installation	Installation Place				
1	Safety Deposit Box	Hyundai, HDT-51S	1	4,400,000	4,400,000	05 July.2006	Project office				
2	OHP	3M, 3M-2660	2	7,932,350	15,864,700	17 July.2006	Project office & Planning Dep.				
3	Printer	HP, HP-1160	2	4,706,050	9,412,100	15 Aug.2006	Project office				
4	FAX Machine	Ricoh, 1130L	1	10,768,000	10,768,000	15 Aug.2006	Project office				
5	Shredder	Geha Primo, 1200	1	4,312,000	4,312,000	06 Sep.2006	Project office				
6	Projector	Canon, LV-7255	1	33,968,000	33,968,000	10 Oct.2006	Project office				
7	Voltage Regulator	Lioa, 45KVA	1	29,150,000	29,150,000	16 Nov.2006	Mobile BSL-3Laboratory				
8	Washing Bowl	Toto, 60cm	1	12,000,000	12,000,000	17 Nov.2006	Mobile BSL-3Laboratory				
9	Scanner	HP, Scanjet-4850	1	3,398,500	3,398,500	22 Nov.2006	Project office				
10	Mobile BSL-3 Laboratory Ante-room	Local, 2,430Wx2,500Lx2,250H	1	69,168,400	69,168,400	11 Jan.2007	Mobile BSL-3Laboratory				
11	Interphone	National, 2029	1	7,000,000	7,000,000	25 Jan.2007	Mobile BSL-3Laboratory				
12	Air Filter Unit	Airtech, MAC-ll-31	2	15,210,000	30,420,000	30 Jan.2007	Mobile BSL-3Laboratory				
13	Inverter	Mitsubishi, FR-FS-0.4K	1	11,583,000	11,583,000	30 Jan.2007	Mobile BSL-3Laboratory				
14	Steps for BSL3 Laboratory	Local, 515x150x30-14pc	1	4,745,000	4,745,000	07 Feb.2007	Mobile BSL-3Laboratory				
15	Equipment Table	Local, 640x510x400	1	3,080,000	3,080,000	13 Feb.2007	Mobile BSL-3Laboratory				
16	Cylinder Box	Local, 500x350x1600	1	4,620,000	4,620,000	13 Feb.2007	Mobile BSL-3Laboratory				
17	Oven	Memmert-JFE 600	1	56,169,700	56,169,700	14 Feb.2007	Decontamination section, Biosafety Dep.				
18	Medium Efficiency Filter	Shinwatech, 610x610x65	1	5,775,000	5,775,000	27 Feb.2007	Biosafety Dep.				
19	HEPA Filter	Shinwatech, 610x305x150	2	6,720,000	13,440,000	27 Feb.2007	Biosafety Dep.				
20	HEPA Filter	Shinwatech, 305x305x150	1	4,725,000	4,725,000	27 Feb.2007	Biosafety Dep.				
21	Stainless steel shelf 2	Local, 880x450x740	1	7,480,000	7,480,000	02 Mar.2007	Mobile BSL-3Laboratory				
22	Refrigerator	Toshiba, GR-M12VT	1	3,769,000	3,769,000	05 Mar.2007	Project office				

Annex 5.

List of Equipment provided by JICA (Japanese Fiscal Year 2006-2008)
List of Equipment by project management fund (above 20,000 yen)

(Unit: VND)									
No.	Item	Model No.	Q'ty	Unit Price(VND)	Price(VND)	Date of Installation	Installation Place		
23	Waste water treatment system	Pecom,350x700-2 units	1	38,450,500	38,450,500	07 Mar.2007	Mobile BSL-3Laboratory		
24	Autoclave	Tomy, ES-315	1	65,798,000	65,798,000	12 Mar.2007	Biosafety Dep.		
25	Alarm System for BSL3 Laboratory	Local,BS-4607	1	10,080,000	10,080,000	14 Mar.2007	Mobile BSL-3Laboratory		
26	Formalin Vaporiser	Foramaflow, VAP2/T	1	64,368,000	64,368,000	14 Mar.2007	Biosafety Dep.		
27	Timer for Formalin Vaporiser	Foramaflow, VAP2b/T	1	52,558,000	52,558,000	19 Mar.2007	Biosafety Dep.		
28	Medium Efficiency Filter	Shinwatech,610x610x65	10	5,775,000	57,750,000	23 Mar.2007	Biosafety Dep.		
29	HEPA Filter	Shinwatech,610x305x150	1	6,720,000	6,720,000	23 Mar.2007	Biosafety Dep.		
30	HEPA Filter	Shinwatech,305x305x150	1	4,725,000	4,725,000	23 Mar.2007	Biosafety Dep.		
	Total				645,697,900				
					¥4,836,923				
					\$40,384				
					1VND=0.007491Yen				
					1USD= 15.989VND				
					Mar.2007 JICA Rate				

Annex 5. List of Equipment provided by JICA (Japanese Fiscal Year 2006-2008)
List of Equipment by project management fund (above 20,000 yen)

JFY2007		(Unit: VND)						
No.	Item	Model No.	Q'ty	Unit Price(VND)	Price(VND)	Date of Installation	Installation Place	
1	Water stills & sterilizers system	Samson & Medda 06-20DT	1	65,100,000	65,100,000	29 June.2007	Decontamination section, Biosafety Dep.	
2	Camera & Monitor	Color CCD & WS-240M	1	18,381,000	18,381,000	20 July.2007	Mobile BSL-3 Mobile Laboratory	
3	Ventilator box	Local.W930xH280xD440	1	2,940,000	2,940,000	06 Aug.2007	Mobile BSL-3 Mobile Laboratory	
4	Oxygen Container	Local.W350xH1600xD500	1	4,620,000	4,620,000	16 Aug.2007	Mobile BSL-3 Mobile Laboratory	
5	Sterilization Bucket(for HB-305)	Hirayama, 270diax210	1	3,832,600	3,832,600	28 Aug.2007	Mobile BSL-3 Mobile Laboratory	
6	Filter for MAC-II-31	Airtech, 289x594x47	2	6,720,000	13,440,000	04 Oct.2007	Mobile BSL-3 Mobile Laboratory	
7	HEPA Filter	Shinwatech,610x610x150	1	10,689,000	10,689,000	04 Oct.2007	Biosafety Dep.	
8	HEPA Filter	Shinwatech,430x430x150	1	8,085,000	8,085,000	04 Oct.2007	Biosafety Dep.	
9	FAX Machine	Panasonic KX-FL402CX	1	5,278,400	5,278,400	08 Oct.2007	Mobile BSL-3 Mobile Laboratory	
10	Color Printer	HP-1600	1	6,494,800	6,494,800	24 Dec.2007	Project office	
11	Electrical Door Lock	Miwa,ALGR21-HS.ECCS	2	30,730,250	61,460,500	25 Dec.2007	Mobile BSL-3 Mobile Laboratory	
12	Tool Bopx for Aircondition	Bunka Boueki, BK-1410SA	1	9,761,500	9,761,500	25 Dec.2007	Biosafety Dep.	
13	Ultrasonic cleaner	Soniclean,3000HT	1	68,407,000	68,407,000	25 Jan.2008	Decontamination section, Biosafety Dep.	
14	Lid & rack for ultrasonic cleaner	Stainless steel	1	8,871,000	8,871,000	25 Jan.2008	Decontamination section, Biosafety Dep.	
15	Steps for BSL-3 Mobile Laboratory	Local,2280mmx1050mm	1	7,554,800	7,554,800	30 Jan.2008	Mobile BSL-3 Mobile Laboratory	
16	Burner	Flamingo 2	1	8,382,000	8,382,000	28 Feb.2008	Biosafety Dep.	
17	Compressor & PAO Liquid	Asahipen, No 851	1	45,978,600	45,978,600	10 Mar.2008	Biosafety Dep.	
18	Aerosol Generator	Transtech, ST(N)-5D	1	69,052,200	69,052,200	10 Mar.2008	Biosafety Dep.	
19	Printer for Particle Counter	Seiko, DPU-414	1	10,160,000	10,160,000	18 Mar.2008	Biosafety Dep.	
20	Hand Wash Training Kit	Nitron, Glitter Bug	1	53,025,000	53,025,000	21 Mar.2008	Biosafety Dep.	
21	HEPA Filter	Airtech,3A-4412265TLPUF	1	26,670,000	26,670,000	21 Mar.2008	Biosafety Dep.	
22	HEPA Filter	Airtech,3A-4061100T3LUF	1	14,910,000	14,910,000	21 Mar.2008	Biosafety Dep.	
	Total				523,093,400			
					¥3,486,941			
					\$32,837			
					1 VND=0.006666Yen			
					1 USD=15,930VND			
					Mar.2008 JICA Rate			

Annex 5.

List of Equipment provided by JICA (Japanese Fiscal Year 2006-2008)

List of Equipment by project management fund (above 20,000 yen)

(Unit: VND)							
No.	Item	Model No.	Q'ty	Unit Price(VND)	Price(VND)	Date of Installation	Installation Place
1	FAX Machine	Panasonic KX-FL402 CX	2	5,278,400	10,556,800	19 Jun.2008	HTC 3F, BSL-3 Laboratories
2	Screen	Local JK-70"x70"	1	5,367,000	5,367,000	30 Jun.2008	HTC 3F, Biosafety Dep.
3	Meeting Table	Local 3000x1200x750	1	5,200,000	5,200,000	22 July.2008	HTC 3F, Biosafety Dep.
4	Water Purification System	Local DT 08-20E	1	54,127,500	54,127,500	06 Aug.2008	HTC 1F, Biosafety Dep.
5	Equipment Storage	Local 30m ² space	1	29,239,300	29,239,300	29 Aug.2008	HTC 4F, Biosafety Dep.
6	Clamp Meter	Kyoritsu 2037	1	4,000,000	4,000,000	29 Sep.2008	Material and Medical Equipment Dep.
7	Insulation-continuity Tester	Kyoritsu 3007A	1	5,000,000	5,000,000	29 Sep.2008	Material and Medical Equipment Dep.
8	PH Meter	Hanna HI-8314	1	6,648,000	6,648,000	01 Oct.2008	HTC 3F, Biosafety Dep.
	Total				120,138,600		
					¥768,767		
					\$7,259		
					1 VND=0.006399Yen		
					1 USD= 16,550VND		
					Oct 2008 JICA Rate		

Project Management Cost provided by JICA
(Japanese Fiscal Year 2006-2008)

JFY 2006 (July.2006-Mar.2007)

Unit:VND

No	Item	Expenses (VND)	Remarks
1	Project Office Management	227,921,200	Local staff, office supplies, transportation, communication etc
2	Training	118,655,200	Laboratory training & IEC training etc
3	Equipment etc Mobile BSL-3 lab anteroom Equipment	645,697,900 (69,168,400) (576,529,500)	Medical & office equipments, BSL-3 laboratory's anteroom cf. List of Equipment by project management fund (above 20,000 yen)
4	Consumables	270,530,000	Consumables for Mobile BSL-3 Laboratory & project office
	Total	1,262,804,300	
	Total/Yen	¥9,458,404 \$78,980 1VND=0.007491Yen 1USD=15.989VND Mar 2007 JICA Rate	

JFY 2007 (Apr.2007-Mar.2008)

Unit:VND

No	Item	Expenses (VND)	Remarks
1	Project Office Management	311,953,000	Local staff, office supplies, transportation, communication etc
2	Training	116,433,000	Laboratory training & Project management training
3	Equipment	523,093,400	Medical & office equipments cf. List of Equipment by project management fund (above 20,000 yen)
4	Consumables	211,212,000	Consumables for Mobile BSL-3 laboratory & project office
	Total	1,162,691,400	
	Total/Yen	¥7,750,501 \$72,988 1VND=0.006666Yen 1USD=15.930VND Mar 2008 JICA Rate	

JFY 2008 (Apr.2008-Oct.2008)

Unit:VND

No	Item	Expenses (VND)	Remarks
1	Project Office Management	234,062,200	Local staff, office supplies, transportation, communication etc
2	Training	37,354,200	Laboratory training & Project management training
3	Equipment	145,080,600	Medical & office equipments cf. List of Equipment by project management fund (above 20,000 yen)
4	Consumables	98,202,000	Consumables for BSL-3 laboratories & project office
	Total	514,699,000	
	Total/Yen	¥3,293,559 \$31,100 1VND=0.006399Yen 1USD=16,550VND Oct 2008 JICA Rate	