

ANNEX1 Project Design Matrix of the Project for the Improvement of Cattle Artificial Insemination Technology in Viet Nam (version 3)

Vietnamese Implementing Agency: NIAH Japanese Implementing Agency: JICA
 Main Site: NIAH Sub Site: MAIC Term of Cooperation: 2000.10.2~ 2005.10.1 Target Area: All over Viet Nam
 Focused Area: 5 provinces in North Area and 4 provinces in South Area Target Group: AI technicians, officers in local offices 2004.4.20

Summary	Objectively Verifiable Indicators	Means of Verification	Important Assumptions
<p>(Overall Goal) The productivity of milk and beef will be increased by improving cattle artificial insemination techniques.</p>	<p>1. Milk production increases in focused areas. 2. The number of dairy cattle increases in focused areas. 3. Annual milk yield per cow increases in focused areas.</p>	<p>1. Milk production records (farmers, milk processing companies, result of dairy herd performance test) 2. Registration records</p>	<p>1. The Livestock production policy remains unchanged. 2. There is no outbreak of serious infectious diseases that effect productivity of livestock.</p>
<p>(Project Purpose) Artificial insemination techniques for cattle will be improved through the use of straw semen.</p>	<p>1. Rate of AI by straw type frozen semen for dairy cattle increases to more than 95% in focused areas. 2. NIAH/MAIC can manage AI information of focused areas (recording, collecting, analyzing, utilizing). 3. The number of inseminated cows per retrained AI technicians increases in focused areas. 4. Reproduction performances of dairy cattle increase in focused areas.</p>	<p>1. AI recorded data semen production records in MAIC 3. AI field survey 4. Distribution records in AI-substations and local offices</p>	<p>1. There is no outbreak of serious disease or disorder for animals in focused areas. 2. There is no important organizational change in related organizations.</p>
<p>(Outputs) 1. AI technicians are trained and their skills are improved. 2. Distribution method for frozen semen and AI recording management are improved 3. Production technique of straw typed frozen semen is improved 4. Feeding and management of sires are improved.</p>	<p>1-1. 200 AI technicians in focused areas are retrained. 1-2. Manual and teaching materials are made for AI training. 1-3. Content, methodology and teaching materials of the AI training are applied to the training in the National Dairy Development Project. 2-1. The motility of straw type frozen semen is maintained in the distribution network. 2-2. Using the AI records reported from re-trained AI technicians, the distributed semen quality can be monitored. 2-3. A computer program for frozen semen stock and distribution management is made and put into practice 2-4. The developed materials by the project for AI information recording is are utilized by the</p>	<p>1-1. Training reports(1) 1-2. Manual and teaching materials for training 1-3. Training reports(2) 2-1. Semen motility survey records in fields 2-2. Report of survey for AI pregnancy rate of individual bull and technicians 2-3. Data of frozen semen stock and distribution of VINALICA 2-4. Progress report of the National Dairy</p>	<p>1. AI technicians and officers in the local offices understand the objectives of the project and are cooperative with it's activities</p>

	<p>National Daily Development Program</p> <p>3-1. 100% of frozen semen for dairy breed is produced in straw form in MAIC.</p> <p>3-2. The rate of straw-typed frozen semen passed the quality examination increase from 75-80% to more than 95% in MAIC.</p> <p>3-3. All the data on production and distribution of semen is managed by using computer in MAIC.</p> <p>4-1. The rate of sire bulls to be used for semen processing increases from the present 50 % to more than 85% in MAIC.</p> <p>4-2. MAIC can manage the sire by using individual animal data.</p> <p>4-3. The feeding program is produced and practiced in MAIC.</p>	<p>Development Program</p> <p>3. Frozen semen production records</p> <p>4. Frozen semen production records and Work reports</p>	
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<p>(Activities)</p> <p>1. (Transfer of appropriate technical skills in artificial insemination.)</p> <p>1-1. Conduct following surveys when necessity arises.</p> <p>1-1-1. Select the focused areas</p> <p>1-1-2. Situation of feeding and management of cow at dairy farmers</p> <p>1-1-3. The technical level of AI inseminators (implementation number, skill)</p> <p>1-1-4. Reproduction performance (Conception rate, Calving interval...) on the farm</p> <p>1-1-5. Reproduction performance (Conception rate, Calving interval) on the technicians</p> <p>1-1-6. Reproduction performance (Conception rate, Calving interval) on the area</p> <p>1-1-7. The cause of low conception rate</p> <p>1-2. Reproduction techniques are transferred to C/P to apply the AI training</p> <p>1-2-1. Reproduction management method</p> <p>1-2-2. Semen evaluation techniques</p> <p>1-2-3. Applying techniques of reproduction</p> <p>1-2-4. Hormone assay and its utilization techniques</p> <p>1-2-5. Feeding and management techniques for cow</p> <p>1-3. Retrain AI technicians for straw type frozen semen and recording.</p> <p>1-3-1. Determine training participants</p> <p>1-3-2. Reform the curriculum for adaptation of straw typed semen</p> <p>1-3-3. Prepare training manuals and materials</p> <p>1-3-4. Conduct training courses</p> <p>1-3-5. Make training manuals for lectures</p> <p>1-3-6. Evaluate the contents of training courses</p> <p>1-3-7. Monitor the trained AI technicians and give guidance and advices to them in the field</p>	<p>(Inputs)</p> <p><Vietnamese side></p> <p>1. Allocation of personnel</p> <p>2. Local cost (land, building, facilities, maintenance of equipment, other cost to support activities)</p> <p><Japanese side></p> <p>1. Dispatch of experts</p> <p>1) Long term experts; Chief Adviser</p> <p>Feeding and management</p> <p>Frozen semen production</p> <p>Artificial Insemination</p> <p>Project Coordinator</p> <p>2) Short term experts; When necessity arises</p> <p>2. Counterpart training in Japan a few per year</p> <p>3. Equipment</p> <p>4. Local cost support</p>	<p>1. Counterparts continue working in NIAH/MAIC.</p> <p>2. Enough amount of LN2 is stably applied.</p> <p>3. There is no serious damage in frozen semen processing machinery.</p> <p>(Precondition)</p> <p>No objection against the Implementation of the project</p>
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<p>2. Improvement of distribution method for frozen semen and AI recording management.</p> <p>2-1. Conduct surveys when necessity arises.</p> <p>2-2. Produce the recording, collection and evaluation method of AI information in focus areas</p> <p>2-3. Train or consult about storing and distribution method of straw -typed frozen semen</p> <p>2-4. Promote and strengthen the advantage of using AI, toward farmers and AI technicians</p> <p>3. Transfer of efficient techniques for production of straw-typed frozen semen.</p> <p>3-1. Conduct surveys when necessity arises.</p> <p>3-2. Improve general conditions of frozen semen processing facilities.</p> <p>3-3. Provide training on semen processing method.</p> <p>4. (Transfer of appropriate management techniques in feeding of sires.)</p> <p>4-1. Conduct surveys when necessity arises.</p> <p>4-2. Renovate the existing facility for large bulls.</p> <p>4-3. Improve the quality of water.</p> <p>4-4. Feed good quality feeds.</p> <p>4-5. Improve the individual bull management.</p> <p>4-6. Improve animal health programme.</p>		
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ANNEX2 Dispatch of Japanese Experts

1. Long Term Experts

	Name	Expertise	Duration
1	Mr. Ichiro Suzuki	Chief Advisor/Feeding and Management of Sire	Dec 8, 2000 to Mar 31, 2003
2	Dr. Ituo Shimohira	Chief Advisor/Feeding and Management of Sire	Sep 12, 2003 to Sep 11 2005
3	Mr. Koji Shimokawa	Frozen Semen Processing	Oct 2, 2000 to Oct 1, 2004
4	Dr. Kiyoshi Koremats	Artificial Insemination	Mar 28, 2001 to Mar 27, 2005
5	Ms. Shiho Akamatsu	Project Coordination	Oct 2, 2000 to Dec 28, 2002
6	Mr. Yoshihiro Shimizu	Project Coordination	Dec 11, 2002 to Dec 10, 2004

2. Short Term Experts

	Name	Expertise	Duration
1	Dr. Yoshiaki Minato	Frozen Semen Processing Facility Improvement Plan	Mar 1, 2001 to Mar 31, 2001
2	Mr. Kazuyuki Inoue	Planning of Artificial Insemination Training	Aug 13, 2001 to Oct 12, 2001
3	Mr. Takanori Yasumori	Frozen Semen Distribution Plan	Aug 20, 2001 to Sep 28, 2001
4	Ms. Kyoko Uchiyama	Frozen Semen Processing (Preparation of Extender)	Nov 7, 2001 to Nov 27, 2001
5	Mr. Takahiro Nobori	Feeding and Management of Sire	Mar 11, 2002 to Apr 23, 2002
6	Mr. Kengo Hirakawa	Semen Collection Technique	May 13, 2002 to Jun 12, 2002
7	Dr. Naoki Isobe	Reproduction Hormone Assay Technology	Sep 28, 2002 to Nov 28, 2002
8	Mr. Shigeo Matsumoto	Evaluation on AI Recording Program and its Applied Activities	Oct 6, 2002 to Nov 9, 2002

MAFF = Ministry of Agriculture, Forestry and Fisheries
 NLBC = Independent Administrative Institution National Livestock Breeding Center
 LIAJ = Livestock Improvement Association of Japan

	Name	Expertise	Duration	
9	Mr. Sonryo Morita	Forage Production and Feed Adjustment	Oct 8, 2002	to Nov 21, 2002
10	Mr. Toshihiko Nakao	Reproduction Management	Dec 9, 2002	to Dec 27, 2002
11	Mr. Shigeo Matsumoto	Evaluation on AI Recording Program and its Applied Activities	May 12, 2003	to Jun 19, 2003
12	Dr. Masahiro Saito	Sire Health and Disease Control	May 13, 2003	to Jun 27, 2003
13	Mr. Ichiro Suzuki	Feeding and Management of Sire	Jun 21, 2003	to Sep 30, 2003
14	Mr. Hiroshi Takemoto	Bull Feeding System	Jul 8, 2003	to Aug 5, 2003
15	Mr. Kazutoshi Mizuno	Feeds Analysis	Aug 1, 2003	to Aug 29, 2003
16	Dr. Toshihiko Nakao	Survey and Solution Method for Difficult Coeption	Mar 7, 2004	to Apr 2, 2004
17	Mr. Shigeo Matsumoto	Evaluation on AI Recording Program and its Applied Activities	Jun 2, 2004	to Jul 2, 2004
18	Mr. Toru Kadotani	Management of Frozen Semen Distribution Network	Jun 29, 2004	to Jul 17, 2004
19	Mr. Keishi Mizutani	Evaluation of Feeding Program for bull	Sep 25, 2004	to Oct 9, 2004
20	Mr. Masato Maegaki	Operation and maintenance for Farm Machinery	Oct 8, 2004	to Dec 8, 2004
21	Dr. Satoshi Saito	Application of Artificial Insemination Technology	Oct 14, 2004	to Dec 18, 2004
22	Dr. Takeshi Osawa	Application of Hormone assay to AI Field	Jan 5, 2005	to Jan 28, 2005
23	*planned	Veterinary practice for dairy cow	May, 2005 *planned	to Jul, 2005

MAFF = Ministry of Agriculture, Forestry and Fisheries
NLBC = Independent Administrative Institution National Livestock Breeding Center
LIAJ = Livestock Improvement Association of Japan

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ANNEX3-(1) Training of Counterparts in Japan

Name	Duration	Subject	Contents	Trained Institutions	Position when dispatched	Current Position
1 Dr. Hoang Kim Giao	Jul 24, 2000 - Aug 5, 2002	Project Management	Project Management AI and Livestock Development	MAFF, NLBC, LIAJ	Vice Director of NIAH	Vice Director, DAFFE, MAIRD
2 Dr. Nguyen Dang Vang	Feb 19, 2001 - Mar 2, 2001	Project Management	Project Management AI and Livestock Development, Frozen Semen Processing	MAFF, NLBC, LIAJ	Director of NIAH, Project Director	same
3 Dr. Dao Duc Tien	Feb 19, 2001 - Mar 2, 2001	Frozen Semen Processing	Frozen Semen Processing	MAFF, NLBC, LIAJ	Vice Director of MAIC	Manager of MAIC
4 Mr. Tang Xuan Liu	Jul 10, 2001 - Sep 27, 2001	Artificial Insemination for Cattle and Related Technologies	AI and Reproduction Theory, Practice	Rakuno Gakuen University, Total Head Management Service, Bekkaicho AI Breeding Center	Technician of BAVI Cattle and Forage Research Center, NIAH	Manager of Cattle Farm, BAVI Cattle and Forage Research Center, NIAH
5 Dr. Luu Cong Khanh	Jul 10, 2001 - Sep 27, 2001	AI and Related Technology	AI and Reproduction Theory, Practice, ET	Rakuno Gakuen University, NLBC Tokachi Center	Vice Head of ET Department, NIAH	Head of ET Department, NIAH
6 Ms. Vo Thi Xuan Hoa	Aug 13, 2001 - Nov 7, 2001	Frozen Semen Processing	Basic Theory and Practice of Processing Frozen Semen	NLBC Nikappu Center, LIAJ Maebashi Center	Technician, MAIC	Technician, MAIC
7 Ms. Doan Thi Canh	Aug 13, 2001 - Nov 7, 2001	Bull Management	Bull Management, Heat Stress	NLBC Nikappu Center, LIAJ Kumamoto Center	Technician, MAIC	Administration staff of, MAIC
8 Dr. Phat Van Kiem	Jun 6, 2002 - Aug 31, 2002	Ovary Hormone Assay	Ovary Hormone Assay	University of Hiroshima	Head of AI Dept, NIAH	Head of AI Dept, NIAH
9 Mr. Le Ba Que	Jul 9, 2002 - Sep 5, 2002	Bull Management	Individual Bull Management	NLBC Nikappu Center, LIAJ Maebashi Center	Head of Technical Dep., MAIC	Vice Director, MAIC
10 Mr. Tran Trung Chau	Jul 9, 2002 - Sep 5, 2002	Semen Processing and Production Data Management	Semen Processing and Production Data Management	NLBC Nikappu Center, LIAJ Maebashi Center	Technician, MAIC	Technician, MAIC

Name	Duration	Subject	Contents	Trained Institutions	Position when dispatched	Current Position
11 Dr. Do Kim Tuyen	Nov 17, 2002 - Dec 13, 2002	AI Extension System	AI recording system, Holstein cattle registration system etc	MAFF, NLBC, LIAJ	Vice Head of Livestock Div., Dept. of Agriculture and Forestry Extension, MARD	Vice Head of Livestock Div., Dept. of Agriculture and Forestry Extension, MARD
12 Mr. Trinh Quang Phong	Jun 4, 2003 - Aug 9, 2003	Reproduction for Cow	Reproduction management	Hiroshima Univ, Rakunou Gakuen Univ	Researcher for ET NIAH	Researcher for AI NIAH
13 Mr. Phan Le Son	Jun 25, 2003 - Aug 9, 2003	Counter Measurement technology for Difficult Conception	AI techniques & recording, reproduction management	LIAJ Kunimino, Rakunoug Univ, NLBC	Researcher for AI NIAH	Researcher for AI NIAH
14 Dr. Vu Chi Cuong	Jul 1, 2003 - Jul 25, 2003	Feed production in a Climate with high temperature and high humidity	NILGS, NLBC, Okinawa Livestock Experimental Station	Management of forage production, Feed analysis	Deputy Director NIAH	Deputy Director NIAH
15 Mr. ha Van Dinh	Jul 2, 2003 - Aug 2, 2003	Improvement of frozen semen processing	Frozen Semen Processing, Evaluation of frozen semen	NLBC Iokachi, Fukushima, LIAJ	Technical staff of MAIC	Technical staff of MAIC
16 Mr. Dao Duc Tha	Jul 2, 2004 - Aug 2, 2004	Improvement of frozen semen processing	Frozen Semen Processing, Evaluation of frozen semen	NLBC Iokachi, Fukushima, LIAJ	Researcher for AI NIAH	Researcher for AI NIAH
17 Mr. Nguyen Manh Dung	Oct 21, 2003 - Nov 14, 2003	Project Management	AI system, Livestock improvement in Japan project management	NLBC, LIAJ, Okinawa livestock experimental Station	International project assistance NIAH	International project assistance NIAH
18 Mr. Dao Duc Hao	Jun 1, 2004 - Jul 24, 2004	Feed Analysis	Feed Analysis	Fertilizer & feed Inspection Services, NLBC	Animal feed analyst	Animal feed analyst
19 Mr. Tran Cong Hoa	Jun 12, 2004 to Aug 12, 2004	Feeding and Management of Bull	General management & quarantine	NLBC Nikkapu	Technician, MAIC	Technician, MAIC
20 Ms. Nguyen Thi Thu Hoa	Jun 17, 2004 - Aug 8, 2004	Health Management for Bull	Health management & prevention of epidemics	NLBC Nikkapu	Veterinarian MAIC	Veterinarian MAIC

Name	Duration	Subject	Contents	Trained Institutions	Position when dispatched	Current Position
21 Ms. Nguyen Qui Quynh Hoa	Aug 3, 2004 - Sep 29, 2004	Application of Reproductive Hormone Assay	Application of Reproductive Hormone Assay	Yamaguti University	Researcher for AI NIAH	Researcher for AI NIAH
22 Mr. Hoang Kim Yu	Aug 17, 2004 - Sep 14, 2004	Technical management for AI	Processing of frozen semen, distribution management, AI techniques	NLBC Nikappu, Iwate livestock experimental station	Head of Technical Division, Haiyay Dairy Cattle Development project	Head of Technical Division, Haiyay Dairy Cattle Development project
23 Mr. Pham Hai Nam	Aug 17, 2004 - Sep 14, 2004	Technical management for AI			Staff of Moc Chau Dairy Cattle Breeding Co.,	Staff of Moc Chau Dairy Cattle Breeding Co.,
24 Mr. Nguyen Van Tue	Aug 17, 2004 - Sep 14, 2004	Technical management for AI			Director of Bac Ninh Agricultural Extension Center	Director of Bac Ninh Agricultural Extension Center
25 Mr. Le Thuy Trieu	Aug 17, 2004 - Sep 14, 2004	Technical management for AI	Management of AI recording system & AI training	NLBC Shirakawa, Iwate livestock experimental station	Deputy Head, Animal Husbandry Div., Song Hieu Farm	Deputy Head, Animal Husbandry Div., Song Hieu Farm
26 Ms. Trieu Tuyet Mai	Aug 17, 2004 - Sep 14, 2004	Technical management for AI			Head of Animal Breeding, Binh Duong Agricultural Extension Center	Head of Animal Breeding, Binh Duong Agricultural Extension Center
27 Mr. Nguyen Hieu Luong	Aug 24, 2004 - Sep 14, 2004	Management of AI recording system & AI training	Management of AI recording system & AI training	NLBC Shirakawa, Iwate livestock experimental station	Secretary of national dairy cattle development	Secretary of national dairy cattle development
28 *planned	Jul, 2005 - Aug, 2005	Effective roughage production	Forage production & processing	NLBC Shirakawa		
29 *planned	Jul, 2005 - Aug, 2005	Feeding and Management for dairy cow	General management	NLBC Shirakawa		
30 *planned	Jul, 2005 - Aug, 2005	Veterinary practices for bull	Veterinary practice for bull	NLBC Shirakawa		

NIAH = National Institute of Animal Husbandry
 DAFFE = Department of Agriculture, Forestry and Extension, MARD
 MAIC = Morcanda Artificial Insemination Center
 MAFF = Ministry of Agriculture, Forestry and Fisheries
 NLBC = Independent Administrative Institution National Livestock Breeding Center
 LIAJ = Livestock Improvement Association of Japan

ANNEX3-(2) Assignment of Counterparts

Note: In case a counterpart's employment is temporary, enter "*" in Remarks

No.	Name of Counterpart	Field	Present Post	Remarks	Period of Assignment							Training in Japan				
					From	To	2000	2001	2002	2003	2004	2005	Year	Name of Training Course	Duration	
1	Mr. Nguyen Dang Vang	NIAH	Director/ Project Director		Oct, 2000	Jan, 2005								2000	Project Management	Feb 19, 2001 - Mar 2, 2001
2	Dr. Hoang Kim Giao	NIAH	Vice Director/ Project Manager		Oct, 2000	Sep, 2002								2000	Project Management	Jul 24, 2000 - Aug 5 2000
3	Dr. Vu Chi Cuong	NIAH	Deputy Head of Cattle Science Dept		Oct, 2000	Dec, 2002										
	Dr. Vu Chi Cuong	NIAH	Vice Director NIAH, Project Manager		Dec, 2002	Jan, 2005								2003	Feed production in a Climate with high temperature and high humidity	Jul 1, 2003 - Jul 25, 2003
4	Mr. Nguyen Huu Tao	NIAH	Planing and International Cop., Div		Mar 2003	Jan, 2005										
5	Mr. Nguyen Manh Dung	NIAH	International Project Assistant		Oct 2000	Jan, 2005								2003	Project Management	Oct 21, 2003 - Nov 14, 2003
6	Ms. Tran Thi Thanh	NIAH	Planing & International Cop., Div		Mar 2003	Jan, 2005										
7	Ms. Trinh Thi Thanh	NIAH	Planing & International Cop., Div		Mar 2004	Jan, 2005										
8	Dr. Luu Cong Khanh	NIAH	Deputy Head of Embryo Transfer Dept		Oct 2000	Sep, 2002								2001	Artificial Insemination for Cattle and Relate Technologies	Jul 10, 2001 - Sep 27, 2001

No.	Name of Counterpart	Field	Present Post	Remarks	Period of Assignment							Training in Japan				
					From	To	2000	2001	2002	2003	2004	2005	Year	Name of Training Course	Duration	
	Dr. Luu Cong Khanh	NIAH	Head of Embryo Transfer Dept		Sep, 2002	Jan, 2005										
9	Mr. Phan Le Son	NIAH	Embryo Transfer Dept		Oct 2000	Jan, 2005								2003	Counter Measurement technology for Difficult Conception	Jun 25, 2003 – Aug 9, 2003
10	Ms. Nguyen Thi Kim Anh	NIAH	Embryo Transfer Dept		Oct 2000	Jan, 2005										
11	Ms. Nguyen Thi Thoa	NIAH	Embryo Transfer Dept		Oct 2001	Jan, 2005										
12	Mr. Dang Vu Hoa	NIAH	Embryo Transfer Dept		Apr 2002	Jan, 2005										
13	Mr. Nguyen Van Ly	NIAH	Embryo Transfer Dept		Aug 2001	Jan, 2005										
14	Ms. Chu thi Yen	NIAH	Embryo Transfer Dept		Sep 2003	Jan, 2005										
15	Mr. Pham Tat Cuong	NIAH	Cattle Science Dept		Oct 2000	Jan, 2005										
16	Mr. Nguyen Thanh Trung	NIAH	Cattle Science Dept		Oct 2000	Jan, 2005										
17	Dr. Phan Van Kiem	NIAH	Head of Artificial Insemination Dept		Oct 2000	Jan, 2005								2002	Ovary Hormone Assay	Jun 6, 2002 – Aug 31, 2002
18	Trinh Quang Mr. Phong	NIAH	Artificial Insemination Dept		Oct 2000	Jan, 2005								2003	Reproduction for Cow	Jun 4, 2003 – Aug 9, 2003
19	Mr. Dao Duc Tha	NIAH	Artificial Insemination Dept		Oct 2000	Jan, 2005								2004	Improvement of frozen semen processing	Jul 2, 2004 – Aug 2, 2004

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No.	Name of Counterpart	Field	Present Post	Remarks	Period of Assignment							Training in Japan			
					From	To	2000	2001	2002	2003	2004	2005	Year	Name of Training Course	Duration
20	Nguyen Qui Ms. Quynh Hoa	NIAH	Artificial Insemination Dept		Mar 2003	Jan, 2005							2004	Application of Reproductive Hormone Assay to	Aug 3, 2004 to Sep 29, 2004
21	Nguyen Huu Mr. Luong	NIAH	Secretary of National Dairy Project		Oct 2002	Jan, 2005							2004	Management of AI recording system & AI training	Aug 24, 2004 - Sep 14, 2004
22	Mr. Tran Son Ha	NIAH	National Dairy Project		Mar 2003	Jan, 2005									
23	Mr. Vu Ngoc Hieu	NIAH	National Dairy Project		Mar 2003	Jan, 2005									
24	Nguyen Thanh Mr. Long	NIAH	National Dairy Project		Mar 2003	Jan, 2005									
25	Nguyen Tien Mr. Phien	NIAH	Personel and Administration		Mar 2003	Jan, 2005									
26	Mr. Do Van Hien	NIAH	Head of Accountant Div		Mar 2003	Jan, 2005									
27	Mr. Trinh Xuan Cu	NIAH	Head of Information and Training Div		Mar 2003	Jan, 2005									
28	Mr. Vo Van Su	NIAH	Head Department of Biodiversity		Oct 2002	Jan, 2005									
29	Nguyen Quoc Mr. Dat	NIAH	Animal Husbandry		Mar 2003	Jan, 2005									
30	Le Thi Thanh Ms. Binh	NIAH	Transferring Technology and Research Center		Mar 2003	Jan, 2005									
31	Nguyen Suc Mr. Manh	NIAH			Mar 2003	Jan, 2005									

No.	Name of Counterpart	Field	Present Post	Remarks	Period of Assignment							Training in Japan					
					Post at assignment time	From	To	2000	2001	2002	2003	2004	2005	Year	Name of Training Course	Duration	
32	Mr. Le Trong Lap	NIAH	Director of BAVI Cattle and Forage Research Center, NIAH		Mar 2003	Jan, 2005											
33	Mr. Tang Xuan Luu	Bavi-NIAH	Technician of BAVI Cattle and Forage Research Center, NIAH		Oct 2000	Dec, 2003									2001	Artificial Insemination for Cattle and Relate Technologies	Jul 10, 2001 - 26-Sep-97
34	Mr. Tang Xuan Luu	NIAH	Deputy Head of Cattle Production Unit / Vice Director of Ba Vi Center		Dec, 2003	Jan, 2005											
35	Nguyen Van Mr. Thuan	NIAH	Technical Dept		Oct 2000	Jan, 2005											
36	Nguyen Tien Mr. Tung	NIAH	Technical Dept		Oct 2000	Jan, 2005											
37	Mr. Ha Van Chieu	NIAH	Vice President of VINALICA		Oct 2000	Jan, 2005											
38	Mr. Dao Duc Tien	MAIC	Vice-Director		Oct 2000	Jan, 2005									2000	Frozen Semen Processing	Feb 19, 2001 - Mar 2, 2001
39	Ms. Doan Thi Canh	MAIC	Administration Department		Oct 2000	Jan, 2005									2001	Bull Management	Aug 13, 2001 - Nov 7, 2001
40	Mr. Le Ba Que	MAIC	Director of MAIC		Oct 2000	Jan, 2005									2002	Bull Management	Jul 9, 2002 - Sep 5, 2002
41	Nguyen Thi Thu Ms. Hoa	MAIC	Semen Processing Unit		Mar 2003	Jan, 2005									2004	Health Management for Bull	Jun 17, 2004 - Aug 8, 2004
41	Mr. Tran Trung Chau	MAIC	Technical Dept		Oct 2000	Jan, 2005									2002	Semen Processing and Production Data Management	Jul 9, 2002 - Sep 5, 2002

No.	Name of Counterpart	Field	Present Post		Remarks	Period of Assignment							Training in Japan		
			Post at assignment time	Technical Dept		From	To	2000	2001	2002	2003	2004	2005	Year	Name of Training Course
42	Ms. Vo Thi Xuan Hoa	MAIC	Technical Dept			Oct 2000	Jan, 2005						2001	Frozen Semen Processing	Aug 13, 2001 – Nov 7, 2001
43	Mr. Ha Van Dinh	MAIC	Semen Processing Unit			Oct 2000	Jan, 2005						2003	Improvement of frozen semen processing	Jul 2, 2003 – Aug 2, 2003
44	Mr. Hoang Van Khai	MAIC	Semen Processing Unit			Oct 2000	Jan, 2005								
45	Mr. La Xuan Vinh	MAIC	Semen Processing Unit			Jun 2002	Jan, 2005								
46	Mr. Tran Cong Hoa	MAIC	Technical Department			Jun 2002	Jan, 2005						2004	Feeding and Management of Bull	Jun 12, 2004 – Aug 12, 2004
47	Mr. Phung The Hai	MAIC	Technical Department			Jan 2003	Jan, 2005								
48	Mr. Pham Kim Cuong	NIAH	Cattle Science Dept			Jun 2004	Jan, 2005								
49	Mr. Luong Duy Tue	TU SON	Vice Director VINALICA			Jan 2002	Jan, 2005								
50	Nguyen Van Thinh	TU SON	Director of TU SON Center			Jan 2003	Jan, 2005								
51	Nguyen Van Tiem	TU SON	Staff of TU SON Center			Jan 2003	Jan, 2005								

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ANNEX4 Equipment Input from Japanese Side

Note: R/P: Route of Procurement (J: From Japan, L: Local, E: With Expert)
 Frequency of Use (A: Always - B: Often - C: Sometimes)
 Condition (A: Good - B: Fair - C: Bad)

¥: Japanese Yen
 \$: Dollar

STT	Date of Arrival	Description		R/P	Amount	Unit Price		S-total	Place of Storage	Frequency of Use	Condition	Remarks
		Item	Manufacturer			Model Number	Currency					
1	Oct-00	Micro-Pipette	Nichiryo	NPX-100 10-100ml	E	1	¥ 24,000	24,000 ¥	MAIC	A	A	
2	Oct-00	Notebook Computer	Apple	"Power BookG3" M7630JA, +128 MB, battery	E	1	¥ 388,600	388,600 ¥	Project Office	C	A	
3	Oct-00	Software	Microsoft	"MS-Office 98" for MAC	E	1	¥ 65,300	65,300 ¥	Project Office	C	A	
4	Oct-00	Software	File Maker	"File maker PRO 5J" for MAC	E	1	¥ 38,200	38,200 ¥	Project Office	C	A	
5	Oct-00	Printer	Canon	BJ-F6100 (100V), caable	E	1	¥ 59,170	59,170 ¥	Project Office	B	A	
6	Oct-00	Microscope	Olympus	CH30-21-FS AC220-240V	E	1	¥ 295,000	295,000 ¥	MAIC	A	A	
7	Oct-00	Thermo Plate	Olympus	MATS-U-55S AC220V	E	1	¥ 182,000	182,000 ¥	MAIC	A	A	
8	Oct-00	Microscope	Olympus	CH10MOM-SET	E	1	¥ 82,000	82,000 ¥	MAIC	A	A	
9	Dec-00	Notebook Computer	Sharp	PC-FJ140R,	E	1	¥ 260,000	260,000 ¥	Project Office	B	A	
10	Jan-01	Notebook Computer	Fujitsu	FMVNE560R3,+1 28MB	E	1	¥ 309,600	309,600 ¥	Project Office	B	A	
11	Jan-01	Scanner	Epson	GT-8700F, cable	E	1	¥ 43,680	43,680 ¥	Project Office	C	C	ELECTRIC FAILURE
12	Jan-01	Digital Camera	Olympus	C-990zoom	E	1	¥ 63,500	63,500 ¥	Project Office	A	A	
13	Jan-01	Software Access 2000	Microsoft	Access 2000	E	1	¥ 27,600	27,600 ¥	Project Office	A	A	
14	Jan-01	MO drive	Olympus	MO646S1S/U2	E	1	¥ 56,800	56,800 ¥	Project Office	A	A	
15	Jan-01	Software Virtual PC 3.0J for Machintosh	ASCI	Virtual PC 3.0J for Machintosh	E	1	¥ 38,400	38,400 ¥	Project Office	A	A	
16	Jan-01	Software Adobe illustrator for Mac.	Adobe	Adobe illustrator for Mac.	E	1	¥ 94,800	94,800 ¥	Project Office	B	A	

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STT	Date of Arrival	Description			Model Number	R/P	Amount		Unit Price		S-total	Place of Storage	Frequency of Use	Condition	Remarks
		Item	Manufacture	Amount			Currency	Amount	Currency						
17	Jan-01	Book "Liveslock"	Yokendo		E	1	¥	40,000	¥	40,000	Project Office	A	A		
18	Jan-01	Video Tape "Zenno"	Zenno rakuno	Vol1-Vol.4	E	4	¥	7,000	¥	28,000	Project Office	B	A		
19	Jan-01	Video Tape "Cattle & AI"	Chikusan Gijutsu Kyokai	Vol1-Vol.10	E	10	¥	22,140	¥	221,400	Project Office	B	A		
20	Jan-01	Artificial Vaginas	Fujiira	NFA-40	E	1	¥	45,000	¥	45,000	MAIC	B	A		
21	Jan-01	Artificial Vaginas	Fujiira	NFA-40	E	1	¥	45,000	¥	45,000	MAIC	B	A		
22	Jan-01	Artificial Vaginas	Fujiira	NFA-41	E	1	¥	24,700	¥	24,700	MAIC	B	A		
23	Jan-01	Artificial Vaginas	Fujiira	NFA-41	E	1	¥	24,700	¥	24,700	MAIC	B	A		
24	Jan-01	Horn Exclusioner	Fujiira	NFN-127	E	1	¥	44,800	¥	44,800	MAIC	B	A		
25	Jan-01	Hoof shaver	Fujiira	NFN-180	E	1	¥	25,600	¥	25,600	MAIC	B	A		
26	Jan-01	Cow Womb Model	Fujiira	NFB-203	E	1	¥	95,000	¥	95,000	Project Office	B	A		
27	Jan-01	Cow Womb Model	Fujiira	NFB-203	E	1	¥	95,000	¥	95,000	Project Office	B	A		
28	Jan-01	Photo copy imachine	RICOH	FT7950	L	1	\$	13,063	\$	13,063	Project office	A	A		
29	Jan-01	Fax Machine	RICOH	2900L	L	1	\$	2,068	\$	2,068	Project office	A	A		
30	Feb-01	Television set	Sony	XF25M80	L	1	\$	627	\$	627	Project office	A	A		
31	Feb-01	Multi Video player	Sony	SLV-	L	1	\$	231	\$	231	Project office	A	A		
32	Feb-01	Projector	Plus	Projector U3-880	L	1	\$	6,435	\$	6,435	Project office	A	A		
33	Feb-01	Personal computer	Compaq	DESKPRO SB PIII 800	L	1	\$	1,103	\$	1,103	AJ/NIAH	A	A		
34	Feb-01	Personal computer	Compaq	DESKPRO SB PIII 800	L	1	\$	1,103	\$	1,103	ET/NIAH	A	A		
35	Feb-01	Personal computer	Compaq	DESKPRO SB PIII 800	L	1	\$	1,103	\$	1,103	MAIC	A	B		
36	Feb-01	Personal computer	Compaq	DESKPRO SB PIII 800	L	1	\$	1,103	\$	1,103	Project Management Board	A	A		
37	Feb-01	Printer	Hewlett Packard	HP 1100 Laser printer	L	1	\$	399	\$	399	AJ/NIAH	A	A		
38	Feb-01	Printer	Hewlett Packard	HP 1100 Laser printer	L	1	\$	399	\$	399	ET/NIAH	A	A		
39	Feb-01	Printer	Hewlett Packard	HP 1100 Laser printer	L	1	\$	399	\$	399	MAIC	A	B		
40	Feb-01	Printer	Hewlett Packard	HP 1100 Laser printer	L	1	\$	399	\$	399	Project Management Board	A	A		

STT	Date of Arrival	Description		Amount	Unit Price Currency	S-total	Place of Storage	Frequency of Use	Condition	Remarks
		Item	Manufacture							
41	Feb-01	Notebook Computer	IBM	Model T21-2BA	L	\$ 2,961	2,961	Project Management Board	C	PROGRAM FAILURE (INTERNAL COOPERATION DEPT)
42	Feb-01	Notebook Computer	IBM	Model T21-2BA	L	\$ 2,961	2,961	Project Management Board	C	PROGRAM FAILURE (ADMINISTRATION)
43	Mar-01	Station Wagon	Toyota	Land Cruiser FZJ1051-GN MNK	L	\$ 30,580	30,580	NIAH	A	
44	Mar-01	Pick Up Truck, Double Cabin	Toyota	H10X4WD RZN169L- PERMOL	L	\$ 19,750	19,750	MAIC	A	
45	Mar-01	Projector	Plus	Digital Multimedia Projector U3-880	L	\$ 6,435	6,435	MAIC	A	
46	Mar-01	Photocopy Machine	RICOH	FT5832	L	\$ 5,808	5,808	MAIC	A	
47	Mar-01	Balance	PRECISA	XB-620M	L	\$ 1,059	1,059	MAIC	A	
48	Mar-01	Balance	PRECISA	XB-620M	L	\$ 1,059	1,059	A/NIAH	A	
49	Mar-01	Balance	PRECISA	XB-620M	L	\$ 1,059	1,059	ET/NIAH	A	
50	Mar-01	Balance	PRECISA	XB-620M	L	\$ 1,059	1,059	CS/NIAH	B	
51	Mar-01	Frozen Semen Preservation Bottle	MVB-USA	XC47/11-6	L	\$ 2,277	2,277	MAIC	A	
52	Mar-01	Frozen Semen Preservation Bottle	MVB-USA	XC47/11-6	L	\$ 2,277	2,277	MAIC	A	
53	Mar-01	Frozen Semen Preservation Bottle	MVB-USA	XC47/11-6	L	\$ 2,277	2,277	MAIC	A	
54	Mar-01	Television set	Sony	XF25M80	L	\$ 583	583	MAIC	A	
55	Mar-01	Multi Video player	Sony	SLV-	L	\$ 220	220	MAIC	A	
56	Mar-01	personal computer	Compaq	DESKPRO SB PIII 800	L	\$ 1,092	1,092	BAVI	A	

STT	Date of Arrival	Description			Amount	Unit Price Currency	S-total	Place of Storage	Frequency of Use	Condition	Remarks
		Item	Manufacture	Model Number							
57	Mar-01	personal computer	Compaq	DESKPRO SB PIII 800	L	\$ 1,092	1,092	CS/NIAH	B	A	
58	Mar-01	Notebook computer	IBM	Model T20-86A	L	\$ 2,961	2,961	MAIC	C	C	FAILURE
59	Mar-01	Printer	Hewlett Packard	HP 1100 Laser printer	L	\$ 415	415	BAYI	A	A	
60	Mar-01	Printer	Hewlett Packard	HP 1100 Laser printer	L	\$ 415	415	CS/NIAH	B	A	
61	Mar-01	Scanner	Hewlett	HP Scanjet 6300C	L	\$ 504	504	MAIC	A	A	
62	Mar-01	Balance	SATORIUS	BP2100S	L	\$ 930	930	CS/NIAH	B	A	
63	Mar-01	Centrifuges	HETTICH	UNIVERSAL 32	L	\$ 3,545	3,545	ET/NIAH	A	A	
64	Mar-01	Cold Handling Cabinet	MINITUB	14335/0400	L	\$ 12,317	12,317	MAIC	A	A	
65	Mar-01	Desiccators case	SANPLATEC	CM-3BS	L	\$ 600	600	MAIC	A	A	
66	Mar-01	Distillation apparatus	SANYO	Cyclon Model WSC044	L	\$ 2,886	2,886	MAIC	A	A	
67	Mar-01	Distillation apparatus	SANYO	Cyclon Model WSC044	L	\$ 2,886	2,886	AI/NIAH	A	A	
68	Mar-01	Freezer	SANYO	MDF-UJ086S	L	\$ 5,835	5,835	AI/NIAH	A	A	
69	Mar-01	Grinding Mill	RETSCH	Grindoxix MM100	L	\$ 1,965	1,965	CS/NIAH	B	A	
70	Mar-01	Incubator	SANYO	MIR-162	L	\$ 1,401	1,401	ET/NIAH	A	A	
71	Mar-01	Microscope apparatus	MINITUB	DMLS etc	L	\$ 7,850	7,850	AI/NIAH	A	A	
72	Mar-01	Microscope apparatus	MINITUB	MZ6 etc	L	\$ 4,976	4,976	ET/NIAH	A	A	
73	Mar-01	Oven	MENMART	ULM500	L	\$ 1,366	1,366	AI/NIAH	A	A	
74	Mar-01	Oven	MENMART	ULM500	L	\$ 1,366	1,366	MAIC	A	A	
75	Mar-01	PH meter	METROHM	704	L	\$ 748	748	AI/NIAH	A	A	
76	Mar-01	Potable Balance	SARTORIUS	BL600	L	\$ 384	384	MAIC	A	A	
77	Mar-01	Potable Counting Scale	SARTORIUS	EA30EDE-LOUR	L	\$ 603	603	CS/NIAH	B	A	
78	Mar-01	Refrigerator for Laboratory	SANYO	MPR-161D(H)	L	\$ 1,343	1,343	AI/NIAH	A	A	
79	Mar-01	Refrigerator for Laboratory	SANYO	MPR-161D(H)	L	\$ 1,343	1,343	MAIC	A	A	
80	Mar-01	Sterilizer Steriver	MINITUB	11050/0015	L	\$ 3,208	3,208	MAIC	A	A	
81	Mar-01	Ultra Sonic Washer with heater	BANDELIN	RK1050CH	L	\$ 3,925	3,925	MAIC	A	A	
82	Mar-01	Water Bath	MENMART	WBU45	L	\$ 1,392	1,392	MAIC	A	B	
83	Mar-01	Water Bath	MENMART	WBU45	L	\$ 1,392	1,392	MAIC	A	C	
84	Mar-01	Sorter	Ricoh	ST29	L	\$ 2,156	2,156	MAIC	A	A	
85	Mar-01	Digital Video Camera	Sony	TRV 20	L	\$ 1,452	1,452	Project office	A	A	

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SFT	Date of Arrival	Description			Amount	Unit Price		S-total	Places of Storage	Frequency of Use	Condition	Remarks
		Item	Manufacture	Model Number		R/P	Currency					
86	Apr-01	Printer	Canon	BJM 40, battery,cable	E	1	¥	56,300 ¥	Project Office	A	A	
87	Apr-01	Vaginal speculums for cow	Fujihira	FA605	E	1	¥	43,600 ¥	Project Office	B	A	
88	Apr-01	Uterocervical forceps	Fujihira	FB 73	E	1	¥	38,500 ¥	Project Office	B	A	
89	May-01	Frozen Semen Preservation Bottle	MVE-USA	SC33/32	L	1	\$	1,433 \$	MAIC	A	A	
90	May-01	Frozen Semen Preservation Bottle	MVE-USA	SC33/32	L	1	\$	1,433 \$	MAIC	A	A	
91	May-01	Frozen Semen Preservation Bottle	MVE-USA	SC33/32	L	1	\$	1,433 \$	MAIC	A	A	
92	May-01	Frozen Semen Preservation Bottle	MVE-USA	SC33/32	L	1	\$	1,433 \$	MAIC	A	A	
93	May-01	Frozen Semen Preservation Bottle	MVE-USA	SC33/32	L	1	\$	1,433 \$	MAIC	A	A	
94	May-01	Frozen Semen Preservation Bottle	MVE-USA	XC47/11-6	L	1	\$	2,277 \$	MAIC	A	A	
95	May-01	Frozen Semen Preservation Bottle	MVE-USA	XC47/11-6	L	1	\$	2,277 \$	MAIC	A	A	
96	May-01	Frozen Semen Preservation Bottle	MVE-USA	XC47/11-6	L	1	\$	2,277 \$	MAIC	A	A	
97	May-01	Stirrers	IKA	Model RCT Basic	L	1	\$	382 \$	MAIC	A	A	
98	May-01	Stirrers	IKA	Model RCT Basic	L	1	\$	382 \$	MAIC	A	A	
99	May-01	Stirrers	IKA	Model RCT Basic	L	1	\$	382 \$	NIAH	A	A	
100	May-01	Multiposition Magnetic Stirrer	IKA	Model RO 5 Power	L	1	\$	591 \$	MAIC	A	A	
101	May-01	Multiposition Magnetic Stirrer	IKA	Model RO 15 Power	L	1	\$	1,058 \$	MAIC	A	A	
102	Jun-01	Notebook Computer	NEC	Lavie PC-LC600J54DW	E	1	¥	230,000 ¥	Project Office	A	A	
103	Nov-01	Prepuce Douche for bull		NFA4	J	1	\$	8,338 \$	MAIC	A	A	
104	Nov-01	Temperature Recorder		FH1100	J	1	\$	2,602 \$	MAIC	A	A	
105	Nov-01	Dummy Cow		NFA2	J	1	\$	14,680 \$	MAIC	A	A	
106	Nov-01	Grass Cutter		CX-200J	J	1	\$	4,581 \$	MAIC	A	A	
107	Nov-01	Weighing system for cattle		EC2000-1010	J	1	\$	3,546 \$	MAIC	A	A	
108	Nov-01	Pass box		APB 554U-S	J	1	\$	4,437 \$	MAIC	A	B	

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SIT	Date of Arrival	Description			Amount	Unit Price		S-total	Place of Storage	Frequency of Use	Condition	Remarks
		Item	Manufacture	Model Number		R/P	Currency					
109	Feb-02	Electric Clipper	Andesu	Codeless	B	¥	72,000¥	72,000	MAIC	A	A	
110	Mar-02	Personal Computer	Compaq	SB P4	L	\$	1,207\$	2,414	MAIC	A	B	
111	Mar-02	Personal Computer	Compaq	SB P4	L	\$	1,207\$	9,657	Local provinces	A	A	
112	Mar-02	Printer	HP	Laserjet 1200	L	\$	413\$	3,300	Local provinces	A	A	
113	Mar-02	Printer	HP	Laserjet 1200	L	\$	413\$	825	MAIC	A	B	
114	Mar-02	Shaker	TAITEC	Recipro shaker SR-2W	L	\$	3,437\$	3,437	AI/NIAH	A	A	
115	Mar-02	Minishaker	IKA	MS1	L	\$	300\$	300	AI/NIAH	A	A	
116	Mar-02	Generator	FG Willson	P60	L	\$	20,475\$	20,475	NIAH	A	A	
117	Mar-02	Generator	FG Willson	P60	L	\$	20,475\$	20,475	MAIC	A	B	
118	Mar-02	Plate Reader	Jencons	Opsys MR	L	\$	5,054\$	5,054	AI/NIAH	A	A	
119	Apr-02	Station wagon	Izuzu	UBS25GLK-2A	J	\$	21,909\$	21,909	NIAH	A	A	
120	Apr-02	Minibus	Mitsubishi		J	\$	32,478\$	32,478	NIAH	A	A	
121	May-02	Cattle body measurement vessel FHK/#NFK60 and accessories			B	¥	360,430¥	360,430	MAIC			
122	May-02	Centrifuge	Hettich	Universal 32R	L	\$	4,151\$	4,151	AI/NIAH	A	A	
123	May-02	Incubator	Shellab	1510E	L	\$	790\$	790	AI/NIAH	A	A	
124	May-02	Ultrasonic cleaner	Bandelin	RK514	L	\$	1,242\$	1,242	AI/NIAH	A	A	
125	May-02	Vortex Mixer	Waring	HGB55E	L	\$	1,865\$	1,865	CS/NIAH	A	A	
126	May-02	Ultrasonic bath	Decon	FS100B	L	\$	1,595\$	1,595	CS/NIAH	A	A	
127	May-02	Digital burret	Jencons	Digitrate	L	\$	518\$	518	CS/NIAH	A	A	
128	May-02	Colorimeter	Helinos	Helinos Gamma	L	\$	4,029\$	4,029	CS/NIAH	A	A	
129	May-02	Clean Bench	Labcaire	VLF12	L	\$	6,321\$	6,321	ET/NIAH	A	A	
130	May-02	Dry Block Heater	Jencons	DB-2D,	L	\$	1,213\$	1,213	ET/NIAH	A	A	
131	May-02	Microscope	Leica	BME	L	\$	1,456\$	1,456	BAVI	A	A	
132	May-02	LN2 Tank	MVE(USA)	XC47/11-6	L	\$	1,165\$	23,300	MAIC	A	A	
133	May-02	Ultrasonic generator	Minitub	MPP133	L	\$	4,862\$	4,862	MAIC	A	A	
134	May-02	Straw printing machine	Minitub	Easy Coder	L	\$	20,045\$	20,045	MAIC	A	B	
135	Jun-02	Multi channel pipette	Eppendorf	30-300	L	\$	789\$	789	AI/NIAH	A	A	

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STT	Date of Arrival	Description			Amount	Unit Price Currency	S-total	Place of Storage	Frequency of Use	Condition	Remarks
		Item	Manufacture	Model Number							
				R/P							
136	Jun-02	LN2 tank	Air Liquide	GT2	L	\$ 390	35,100	Local provinces	A	A	
137	Jun-02	LN2 tank	Air Liquide	GT3	L	\$ 400	40,000	Local provinces	A	A	
138	Jul-02	LN2 Tank	MVE	XC32/8	J	\$ 1,748	1,748	NIAH	A	A	
139	Jul-02	LN2 Tank	MVE	XC32/8	J	\$ 1,748	1,748	NIAH	A	A	
140	Dec-02	Cattle group managing board rotary-type, D2025 and others			E	¥ 141,750	141,750	A/NIAH	A	A	
141	Dec-02	Notebook computer and accessories		T5/X16PME (PAT5X16PME) Toshiba	E	¥ 363,730	363,730	Project Office	A	A	
142	Dec-02	Semen examination plate, double type, NFN126 and others			E	¥ 222,525	222,525	MAIC	A	A	
143	Feb-03	Handy Cliper		230 V 50Hz	E	\$ 379	757	MAIC	A	A	
144	Aug-03	Haemattocrit Centrifuge and Rotors			E	¥ 307,800	307,800	MAIC	A	A	
145	Aug-03	Refractometer			E	¥ 23,520	23,520	MAIC Moc Chau	A	A	
146	Sep-03	LN2 Tank	MVE	XC47/11-10	L	\$ 1,185	1,185	Dairy Cattle Breeding Company	A	A	
147	Sep-03	LN2 Tank	MVE	XC47/11-10	L	\$ 1,185	1,185	Hanoi Livestock Company	A	A	
148	Sep-03	LN2 Tank	MVE	XC47/11-10	L	\$ 1,185	1,185	Hanoi Milk and Breeding center.	A	A	
149	Sep-03	LN2 Tank	MVE	XC47/11-10	L	\$ 1,185	3,555	BacNinh Agriculture Extension Center	A	A	

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STT	Date of Arrival	Description			Amount	Unit Price Currency	S-total	Place of Storage	Frequency of Use	Condition	Remarks
		Item	Manufacture	Model Number							
150	Sep-03	LN2 Tank	MVE	XC47/11-10	L	\$ 1,185	7,110	Ha Tay Management Office of dairy development project	A	A	
151	Sep-03	LN2 Tank	MVE	XC47/11-10	L	\$ 1,185	3,555	Can Tho (Song Hau Farm)	A	A	
152	Sep-03	LN2 Tank	MVE	XC47/11-10	L	\$ 1,185	2,370	Dong Nai Agricultural Extension Center	A	A	
153	Sep-03	LN2 Tank	MVE	XC47/11-10	L	\$ 1,185	3,555	Binh Duong Agricultural Extension Center.	A	A	
154	Sep-03	HERMO CURE B GLOCOSE ANALYSER			L	\$ 1,007	1,007	CS/NIAH	A	A	
155	Sep-03	Automatic filling and sealing machine	Minitube-Germany	MPP 133	L	\$ 39,900	39,900	MAIC	A	A	
156	Sep-03	Leica DMLS Microscope	Leica		L	\$ 3,483	3,483	TuSon	A	A	
157	Sep-03	Leica Color Camera Video System	Leica	ICCA - PAL	L	\$ 3,202	3,202	TuSon	A	A	
158	Sep-03	Minitube Heating System suitable for above	Minitube-Germany		L	\$ 1,315	1,315	TuSon	A	A	
159	Sep-03	Micro Pipette and micro tip	BIOHIT/Finland		L	\$ 216	1,294	TuSon	A	A	
160	Sep-03	B Hemoglobine Analyser	HemoCue/Sweden		L	\$ 993	993	CS/NIAH	A	A	
161	Sep-03	Tube Shaker	IKA/Germany	VXR Basic. Cat.No.:2819000	L	\$ 435	435	AI/NIAH	A	A	
162	Nov-03	Notebook computer and soft ware	Toshiba	A25.S3072	E	\$ 3,456	3,456	Project Office	A	A	
163	Dec-03	Personal computer	COMPAQ	COMPAQ Deskpro EVO D220 PIV - 2.4	L	\$ 1,050	1,050	TuSon	A	A	

STT	Date of Arrival	Description		Amount	Unit Price Currency	S-total	Place of Storage	Frequency of Use	Condition	Remarks
		Item	Manufacture							
		Model Number	R/P							
164	Dec-03	Printer	HIP	L	\$	370 \$	TuSon	A	A	
165	Mar-04	Video Tape	Dairy	E	¥	22,600 ¥	AI/NAIH	A	A	
166	Mar-04	Vial mixer VIX-100	TAITEC	E	¥	316,900 ¥	AI/NAIH	A	A	
167	Mar-04	ETS straw labeler	Fujihira	E	¥	158,000 ¥	ET/NAIH	A	A	
168	Mar-04	Tractor		L	\$	31,920 \$	MAIC	A	A	
169	Mar-04	Disc Mover		L	\$	10,853 \$	MAIC	A	A	
170	Mar-04	Gyro Hay Maker		L	\$	7,142 \$	MAIC	A	A	
171	Mar-04	Middle Roll Baler		L	\$	24,923 \$	MAIC	A	A	
172	Mar-04	Disc Plow		L	\$	4,752 \$	MAIC	A	A	
173	Mar-04	Experimental table system	Wiwatsan - lab Thailand	L	\$	8,990 \$	AI/NAIH	A	A	
174	Mar-04	A set of UV-Vis Spectrophotometer (includes parts and printer)	Japan	L	\$	26,225 \$	FA/NAIH	A	A	
175	Mar-04	Analytical Balance	Japan	L	\$	1,750 \$	FA/NAIH	A	A	
176	May-04	CD Writer	Imation	E	\$	270 \$	Local provinces	A	A	
177	May-04	Straw counter	Fujihira	E	¥	69,250 ¥	MAIC	A	A	
178	May-04	Straw counter	Fujihira	E	¥	69,250 ¥	TuSon	A	A	
179	May-04	Straw rack	Fujihira	E	¥	26,600 ¥	MAIC	A	A	
180	May-04	Straw rack	Fujihira	E	¥	26,600 ¥	TuSon	A	A	
181	Jun-04	Automatic steam distilling unit	Italy	L	\$	13,800 \$	FA/NAIH	A	A	
182	Aug-04	Digital Camera	Konica	E	¥	80,000 ¥	MAIC	A	A	
183	Aug-04	Digital Camera	Konica	E	¥	80,000 ¥	TuSon	A	A	
184	Sep-04	Tool set	Maeda Kinzoku Kogyo	E	¥	77,800 ¥	MAIC	A	A	
185	Sep-04	Mobile Lab for AI Technology practice	Japan	J	¥	19,489,991 ¥	NAIH	A	A	
186	Sep-04	Refrigerators	Japan	J	¥	127,000 ¥	NAIH	A	A	
187	Sep-04	Haematocrit centrifuge	Japan	J	¥	286,500 ¥	NAIH	A	A	
188	Sep-04	Biology microscope	Japan	J	¥	592,000 ¥	NAIH	A	A	
189	Sep-04	Inverted microscope	Japan	J	¥	1,811,500 ¥	NAIH	A	A	
190	Sep-04	Color television system of microscope	Sony	J	¥	389,500 ¥	NAIH	A	A	
191	Sep-04	Plate wamer		J	¥	150,000 ¥	NAIFI	A	A	

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STT	Date of Arrival	Description			Amount	Unit Price		S-total	Place of Storage	Frequency of Use	Condition	Remarks
		Item	Manufacture	Model Number		R/P	Currency					
192	Sep-04	PC for Semen Analyzer device			J	¥	5,750,000 ¥	5,750,000	NIAH	A	A	
193	Sep-04	Electronical ultrasonic diagnostic device		HS-2000	J	¥	2,738,000 ¥	2,738,000	NIAH	A	A	
194	Sep-04	Refrigerators for storage and shipping		SR-17	J	¥	150,000 ¥	150,000	NIAH	A	A	
195	Sep-04	Obstetrical instrument set		NFG1A	J	¥	291,100 ¥	291,100	NIAH	A	A	
196	Sep-04	Semen examination plate		NFA71	J	¥	49,500 ¥	49,500	NIAH	A	A	
197	Sep-04	AI Instruments set		C-1	J	¥	174,900 ¥	174,900	NIAH	A	A	
198	Sep-04	Ultrasound system for	The	Tringa Linear	L	\$	11,250 \$	11,250	AI/NIAH	A	A	
199	Sep-04	Ultrasound system for	The	Tringa Linear	L	\$	11,250 \$	11,250	ET/NIAH	A	A	
200	Oct-04	Yanma Wheel Loader and spareparts		V1-1A	L	\$	26,262 \$	26,262	MAIC	A	A	
201	Oct-04	Dump type Trailer		DT-3000D	L	\$	15,459 \$	15,459	MAIC	A	A	
202	Oct-04	Disc Harrow		DHO1618	L	\$	8,750 \$	8,750	MAIC	A	A	
203	Oct-04	K-Roller and spareparts		TKR2000	L	\$	10,706 \$	10,706	MAIC	A	A	

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ANNEX 5 Budget Input from Japanese Side

Unit: Thousand Yen

	00 Oct ~ 01 Mar	01 Apr ~ 02 Mar	02 Apr ~ 03 Mar	03 Apr ~ 04 Mar	04 Apr ~ 05 Mar	05 Mar ~ 05 Sep
1. Local Cost						
1) General Expenditure	4,000	5,040	4,018	6,353	3,654	1,964
Travel Expenditure for c/p	0	0	Air fare 237	161	192	20
Seminar Expense	0	0	351	354	1,696	1,822
2) Research & Training						
AI Retraining	0	5,916	2,755	1,352	593	0
Enlightenment & Extension(publication)	0	2,002	2,458	2,699	2,135	0
3) Repairing & Renovation						
Semen processing facilities	0	7,725	0	0	0	0
Water Treatment facilities	0	1,675	0	0	0	0
Bull sheds	0	846	0	5,615	0	0
4) Study trip						
Sub-total	4,000	23,204	9,819	16,534	8,270	3,806
2. Equipment & machinery						
Procurement in Japan	0	20,100	0	0	34,108	0
Procurement in Vietnam	incl. for 01 budget	29,183	0	19,644	13,921	6,522
Carried by Experts	5,107	1,319	867	870	2,782	500
Sub-total	27,634	50,602	867	20,514	50,811	7,022
Total	31,634	73,806	10,686	37,048	59,081	10,828
					Grand Total	223,083

*04 Apr ~ 05 Mar & 04 Apr ~ 09 Sep: planned

ANNEX6 Budget Input From Vietnamese Side

Unit : thousand VND

Fiscal Year	2000 (Oct-Dec)	2001 (Jan-Dec)	2002 (Jan-Dec)	2003 (Jan-Dec)	2004 (Jan-Dec)	Total	Remark
1. Working Expenditure							
Power and water Supply	6,000	36,000	36,000	36,000	36,000	150,000	
Local telephone and fax	3,000	18,000	18,000	18,000	18,000	75,000	
Benzyls, petrol & oil	6,000	36,000	36,000	36,000	36,000	150,000	
2. Personnel Cost	56,000	336,000	336,000	336,000	336,000	1,400,000	
3. Facility Expenditure							
Room Equipment	10,000					10,000	
Reparing & Renovation expense	60,000					60,000	
Reparing for storage & Lab etc.		50,000	50,000	50,000	150,000	300,000	
Installation of tel and fax line	6,000					6,000	
4. Research and Training							
Reaserch		51,000	71,000	80,000		202,000	
Training		1,000	1,000	60,000	60,000	122,000	
5. Others							
Custom prosedure							
Registure		40,000			20,000	60,000	
Insurance		25,000			10,000	35,000	
Total	147,000	593,000	548,000	616,000	666,000	2,570,000	

ANNEX7 Technical Training managed by Counterparts

No.	Date	Title of Training, Seminar & Workshop	Participant	No. of participant	Place	Remark
1	2000/10/17	Kick off Seminar "Introduction of JICA and Livestock Development Situation in Japan	Related Counterparts	50	NIAH	
2	2001/3/1	AI survey Meeting	AI technicians in North	40	NIAH	
3	2001/3/30	The points of frozen semen facility improvements	MAIC staff, counterparts	6	MAIC/HaTay	workshop
4	2001/4/20	AI semina and workshop for new AI technicians	AI technicians, CP	25	MAIC	seminar
5	2001/5/4	Reproduction examination workshop	AI technicians, CP	5	Phu Dong farm in Hanoi	workshop
6	2001/6/1	Work shop of reproductive examination	CounterPart, Technicians	15	Hanoi	
7	2001/6/14	Hoof trainining for success AI	AI technicians, CP	5	Bavi cattle and forage reserch center	workshop
8	2001/6/15	Work shop of reproductive examination	CounterPart, Technicians	10	Bavi, HaTay	
9	2001/6/15	Reproduction examination workshop	AI technicians, CP	5	Phu Dong farm in Hanoi	workshop
10	2001/6/21	Work shop of reproductive examination	CounterPart, Technicians	10	Bavi, HaTay	
11	2001/6/29	AI seminar	farmers, AI technicians	45	BacNinh agriculture extension center	seminar
12	2001/7/5	AI workshop	AI technicians, CP	12	Vinh Phuc agriculture extension center	workshop*
13	2001/8/1	AI workshop	AI technicians, CP	8	Vinh Phuc agriculture extension center	workshop
14	2001/8/15	AI technique of Japan	AI technicians	30	ThanhHoa	
15	2001/8/16	Reproduction examination workshop	AI technicians, CP	10	Cau Dien farm in Hanoi	workshop
16	21-29/08/2001	The 1st AI retraining	AI technicians, CP	25	NIAH, MAIC	
17	2001/9/15	AI technical seminar	AI technicians, CP	27	Monca	workshop
18	2001/10/29	AI technich and reproductive examination workshop	AI technicians, CP	14	Bavi cattle and forage reserch center	workshop
19	2001/11/2	AI seminar: introduce AI technique	AI technicians, CP	31	Than Hoa	seminar
20	2001/11/13	Semen motility examination	CP	18	NIAH	workshop
21	2001/11/14	Factors and points to concidar for improving conception rate	NIAH, MAIC counterparts	15	NIAH/Hanoi	workshop

No.	Date	Title of Training, Seminar & Workshop	Participant	No. of participant	Place	Remark
22	04-10/12/2001	The 2nd AI retraining	AI technicians, CP	26	NIAH, MAIC	
23	2001/12/19	Workshop Sampling from bull for health management	CP	12	MAIC	workshop
24	2002/1/24	Advise for AI practical seminar	AI technicians, CP	25	Bavi cattle and forage reserch center	seminar
25	2002/1/30	Dairy cow feeding and management seminar	Staffs of Moc Chau dairy company	5	Moc Chau dairy company	seminar
26	2002/2/1	Reproduction examination workshop	AI technicians, CP	5	Phu Dong farm in Hanoi	workshop
27	2002/2/7	Animal health examination seminar	CP	7	MAIC	seminar and practice
28	01-6/03/2002	The 3rd AI retraining	AI technicians, CP	25	Binh Duong dairy training center	
29	2002/3/15	Reproduction examination workshop	AI technicians, CP	5	Phu Dong farm in Hanoi	workshop
30	2002/3/27	Workshop hoof trimming	CP and technical staffs in MAIC	15	MAIC	workshop
31	2002/4/1	AI recording Meeting	Local Officers in North	10	NIAH	
32	2002/4/12	Workshop hoof trimming	CP and technical staffs in Bavi cattle and forage reserch center	20	Bavi cattle and forage reserch center	workshop
33	2002/4/18	Workshop on bull management technique	MAIC	15	MAIC	workshop
34	2002/5/7	Reproduction examination workshop	AI technicians, CP	15	Bavi cattle and forage reserch center	workshop
35	2002/5/9	Reproduction examination workshop	AI technicians, CP	6	Phu Dong farm in Hanoi	workshop
36	2002/6/6	Semen collection technique	MAIC staff, counterparts	13	MAIC/Ha Tay	workshop'
37	2002/6/7	Reproduction examination workshop	AI technicians, CP	7	Phu Dong farm in Hanoi	workshop
38	2002/6/13	Seminar for extension method	Provincial officers, AI technicians, Veterinarians, Cow Manager	30		
39	2002/7/5	AI recording and its importance	AI techs, district officers, farmer	50	Hatay province	seminar
40	2002/7/8	Reproduction seminar lectre at the dairy seminar by medical company	administrator, veterinarian, AI technicians	50	Hotel in Hanoi	seminar
41	10-16/07/2002	The 4th AI retraining	AI technicians, CP	25	NIAH, MAIC	
42	2002/9/1	AI recording computer training course(Northern Area)	Local officer(focus area)	10	NIAH/Hanoi	training
43	2002/9/17	AI recording material and workshop	Local officer, AI techs	20	Bach Ninh province	workshop
44	2002/9/29	AI recording and its importance	AI techs, farmer	70	Bach Ninh province	seminar

No.	Date	Title of Training, Seminar & Workshop	Participant	No. of participant	Place	Remark
45	2002/10/1	Theory and Apply of ELISA	Related Reserchers in NIAH and University	10	NIAH	
46	2002/10/4	Reproduction examination workshop	AI technicians, CP	6	Phu Dong farm in Hanoi	workshop
47	2002/10/11	AI recording material and workshop	Local officer, AI techs	30	Vinh Phouc province	workshop
48	2002/10/15	Seminar about laboratory working (1)	CP, Reserchers	25	NIAH	seminar
49	2002/10/16	How to sample from dairy cow in farm	CP, technical staffs on farm	10	Phu Dong farm in Hanoi	workshop
50	2002/10/19	Reproduction examination workshop	AI technicians, CP	10	Tuyen Quang province	workshop
51	2002/10/23	Reproduction management seminar	Provincial officers, AI technicians, Veterinarians, Cow Manager	30	AnGiang Agricltre Export and Inport Company	
52	2002/10/23	Seminar about laboratory working (2)	CP, Reserchers	25	NIAH	seminar
53	2002/10/24	Reproduction management workshop	Provincial officers, AI technicians, Veterinarians, Cow Manager	20	Tri Tho farms, AnGiang Agricltre Export and Inport Company	
54	2002/10/26	Reproduction management workshop	Provincial officers, AI technicians, Veterinarians, Cow Manager	35	SonHau farm in CanTho	
55	2002/10/28	Reproduction management seminar	Provincial officers, AI technicians, Veterinarians, Cow Manager	15	BinhDuong Agriculture extension center	
56	2002/11/1	AI recording material and workshop	Local officer, AI techs	25	Moc Chau dairy company	workshop
57	2002/11/5	Seminar: AI technique seminar	AI technicians	30	HaiDuong livestock office	
58	2002/11/7	Japanese Experience in Dairy Cattle Breed Improvement seminar	MARD, NIAH, MAJC, Local offices	40	NikkoHotel/Hanoi	seminar
59	2002/11/26	Seminar hormone assay for AI technique	CP, Reserchers	25	NIAH	seminar
60	2002/11/29	AI recording material and workshop	Local officer, AI techs	30	Hatay province	workshop
61	2002/12/1	AI recording and its importance	AI techs, district officers, farmer		Hanoi city	seminar
62	2002/12/1	National AI training course	AI techs	25	Thain Nien	organized by MARD
63	2002/12/1	same above	AI techs	25	Hai Doung	organized by MARD

No.	Date	Title of Training, Seminar & Workshop	Participant	No. of participant	Place	Remark
64	2002/12/6	AI recording material and workshop	Local officer, AI techs	20	Hanoi Livestock company	workshop
65	2002/12/13	How to get the cow pregnant?	CounterPart, Reserchers	40	NIAH	
66	2002/12/18	Strategies to Improve Reproductive Performance in Dairy Cows	Reserchers, University Lecturers, Technicians, Manager of Provincial office	100	HoChiMinh City	
67	2002/12/20	Strategies to Improve Reproductive Performance in Dairy Cows	Reserchers, University Lecturers, Technicians, Manager of Provincial office	80	CanTho	
68	2002/12/24	Strategies to Improve Reproductive Performance in Dairy Cows	Reserchers, University Lecturers, Technicians, Manager of Provincial office	100	Hanoi	
69	2003/1/1	AI recording computer training course(Southern Area)	Local officer(focus area)	10	VJCC/HCMC	training
70	15-21/01/2003	The 5th AI retraining	AI technicians, CP	25	NIAH, MAIC	
71	2003/1/23	Seminar for evaluation of project	CP and staffs of NIAH	20	NIAH	seminar
72	2003/2/20	AI recording material and workshop	Local officer, AI techs	7	Phudong farm/Hanoi	workshop
73	2003/3/21	Seminar animal hygiene and prevention disease for bull	CP and staffs of MAIC	20	MAIC	seminar and practice
74	2003/4/10	Workshop for reproduction examination in the farm	CP and AI technicians	15	Dairy farm in TuyenQuang	workshop*
75	2003/5/21	Workshop for reproduction examination in the farm	CP and AI technicians	14	Bavi cattle and forage reserch center	workshop
76	2003/5/29	How to make reproduction of dairy cow better?	Manager of tehnicque from Provincial offices and technicians	30	SonLa	
77	2003/6/5	How to make reproduction of dairy cow better?	Manager of tehnicque from Provincial offices and technicians	30	TuyenQuang	
78	2003/6/10	Seminar animal hygiene and prevention disease for bull	CP and staffs of MAIC	15	MAIC	seminar and practice
79	2003/6/12	Workshop on AI recording activities	MARD, NIAH, MAIC, Local offices	60	NIAH/Hanoi	workshop
80	2003/6/13	How to make reproduction of dairy cow better?	Manager of tehnicque and technicians	30	ThanhHoa	

No.	Date	Title of Training, Seminar & Workshop	Participant	No. of participant	Place	Remark
81	2003/6/13	The Meaning of Cattle Registration in terms of Breed Improvement	MARD, NIAH, MAIC, Local offices	60	NIAH/Hanoi	seminar
82	2003/6/19	Seminar animal hygiene and prevention disease for bull	CP and staffs of MAIC	30	MAIC	seminar
83	2003/6/20	Seminar of animal hygien	CounterPart, Reserchers	20	NIAH	
84	2003/6/20	Seminar: AI technique seminar	AI technicians	30	MAIC	
85	2003/6/24	Seminar of animal hygien	Officer of MARD	5	MARD	
86	2003/6/24	Seminar for animal hygiene and prevention disease	CP and resercher	25	NIAH	seminar
87	2003/6/27	Workshop: sampling from dairy cattle in the farm	CP	5	Phu Dong farm in Hanoi	workshop
88	2003/7/16	AI seminar and practice for new technicians	CP and new AI technicians	25	SonDuong, TuyenQuang	seminar and practice
89	2003/8/20	AI recording material and workshop	Local officer, AI techs	50	MARD/HCMC	workshop
90	2003/8/25	Importance of AI recording for VINALICA	VINALICA Staff	10	VINALICA/Hanoi	workshop
91	2003/8/28	Animal health examination workshop	CP	5	MAIC	workshop
92	05-11/09/2003	The 6th AI retraining	AI technicians, CP	25	NIAH, MAIC	
93	2003/10/16	How to apply the new technology related with cattle reproduction	MARD, NIAH staff	70	NIAH	seminar
94	2003/10/17	Seminar: AI technicians and AI technique	AI technicians	30	HaiDuong livestock office	
95	2003/11/3	Work shop of AI and reproductive management	Provincial officers, AI technicians, Veterinarians, Cow Manager	100	TuyenQuang provincial agriculture office	
96	2003/11/18	Reproduction seminar for make dairy cow pregnant	CP and local staff	25	HaiNam provincial agriculture office	workshop and seminar
97	2003/12/9	Workshop of hormone assay	CP and resercher	5	NIAH	workshop
98	2004/3/10	Reproduction seminar	CP of NIVR project	25	NIVR	seminar
99	2004/3/11	Reproduction seminar	CP and resercher	25	NIAH	seminar
100	16-22/03/2004	The 7th AI retraining	AI technicians, CP	25	NIAH, MAIC	
101	2004/3/20	Reproduction seminar	AI technicians, CP	35	NIAH	seminar

No.	Date	Title of Training, Seminar & Workshop	Participant	No. of participant	Place	Remark
102	2004/3/23	Reproduction practical workshop	AI technicians, CP	20	Bavi cattle and forage reserch center	workshop
103	2004/3/24	Reproduction practical workshop	AI technicians, CP	20	Bavi cattle and forage reserch center	workshop
104	2004/3/25	Reproduction practical workshop	AI technicians, CP	20	Phu Dong farm in Hanoi	workshop
105	2004/3/29	Reproduction seminar in university	Lectures in uviversity, students	130	Hanoi agriculture university	seminar
106	2004/3/31	Reproduction seminar and proposal for NIAH	CP and resercher	35	NIAH	seminar
107	2004/5/12	Reproduction examination workshop	CP	8	Bavi cattle and forage reserch center	workshop
108	2004/6/3	Introduction of project on dairy meeting	Staffs of MARD	200	HoChiMinh city	meeting
109	2004/6/29	An application of AI recording activity -Pedigree Certificate Insurance-	MARD,NIAH,MAIC,Local offices	60	NIAH/Hanoi	seminar
110	2004/7/2	Survey on VINALICA activities	VINALICA Staff	10	VINALICA/Hanoi	organized by VINALICA
111	2004/9/10	National AI training course	AI techs	25	Hai Doung	organized by MARD
112	2004/9/11	Feeding and management for Bull	MAIC	30	MAIC	seminar
113	2004/9/14	Training on frozen semen stock and distribution	VINALICA Staff	12	Tuson/Bach Ninh	organized by VINALICA
114	2004/10/13	Compost production and utilization for dairy farmer	MAIC	30	MAIC	seminar-
115	2004/10/22	Seminar: Applying technology of AI	Counter part, Provincial officers, AI technicians, Veterinarians, Cow Manager	30	NIAH	.
116	2004/10/29	Compost production and utilization for dairy farmer	NIAH	20	NIAH	seminar
117	2004/11/1	Workshop of AI applying technology	Counter part, Provincial officers, AI technicians, Veterinarians, Cow Manager	25	PhuLam farm in TuyenQuang	
118	2004/11/12	Seminar: Reproduction management	Provincial officers, AI technicians, Veterinarians, Cow Manager	30	PhuLam farm in TuyenQuang	
119	2004/11/29	Seminar: Reproduction management	AI technicians, Veterinarians, staffs of Bavi center	20	Bavi, Ha Tay	
120	2005/1/11	Improvement of estrus detection in reproductive management in the dairy cow	CounterPart, Reserchers	28	NIAH	seminar

No.	Date	Title of Training, Seminar & Workshop	Participant	No. of participant	Place	Remark
121	2005/1/12	How to use ultrasonography and interpret ultrasonogram of the genital tract	CounterPart, Reserchers	16	NIAH	workshop
122	2005/1/13	Reproduction examination workshop	CP, Reserchers, AI Technicians, Veterinarian	15	Bavi cattle and forage reserch center	workshop
123	17-22/01/2005	The 8th AI retraining	AI technicians, CP	25	NIAH, MAIC	
124	2005/1/21	Things you can do from today to improve reproductive performance in the cow	AI technicians, CP	32	NIAH	seminar
125	2005/1/21	Early embryonic death and its prevention in cattle	Lectures in uviversity, students	120	Hanoi agriculture university	seminar
126	2005/1/25	Reproduction management seminar	Farm manager, staffs of local office, AI technicians, veterinarian	32	Tuyen Quang province, Phu Lam farm	workshop
127	2005/1/26	Reproduction management seminar	Farm manager, staffs of local office, AI technicians, veterinarian	28	Tuyen Quang province, Phu Lam farm	workshop and seminar