

SUPPLIED EQUIPMENT IN BOLIVIA

Year	Descriptions of Goods	Quantity	Price (\$us)	Arrangement	Section	No.	Actual Condition	Reason of not function
1996	Tractor 140ps (FORD, 8430)	1	45,350.00	Main Center	Pasture and Forage Crops	1	Yes	
1996	Tractor 90ps (FORD, 6630)	1	29,240.00	Main Center	Pasture and Forage Crops	2	Yes	
1996	Seed drill (BALDAN)	1	6,015.00	Main Center	Pasture and Forage Crops	3	Yes	
1996	Rear grader (SUPER TATU)	1	592.00	Main Center	Pasture and Forage Crops	4	Yes	
1996	Front roder (BAALDAN)	1	4,771.00	Main Center	Pasture and Forage Crops	5	Yes	
1996	Disc harrow (SUPER TATU)	1	6,240.00	Main Center	Pasture and Forage Crops	6	Yes	
1996	Rotary cutter (SUPER TATU)	1	2,810.00	Main Center	Pasture and Forage Crops	7	Yes	
1996	Hole-dig machine (SUPER TATU)	1	1,235.00	Main Center	Pasture and Forage Crops	8	Yes	
1996	Forrage chopper (JOHON DEER)	1	10,255.74	Main Center	Pasture and Forage Crops	9	Yes	
1996	Trailer (5t MEKANO)	1	8,200.00	Main Center	Pasture and Forage Crops	10	Yes	
1996	Farm wagon (JF, AV-6000)	1	16,652.00	Main Center	Pasture and Forage Crops	11	Yes	
1996	Back hoe (HYUNDAI, ROBEX 200LC)	1	103,855.00	Main Center	Pasture and Forage Crops	12	Yes	
1996	Car washer (SCHLUZ, CSL1500M, 2HP)	1	2,088.77	Main Center	Pasture and Forage Crops	13	Yes	
1996	Air compressor 3HP (SCHLUZ)	1	1,079.71	Main Center	Pasture and Forage Crops	14	Yes	
1996	Air Tool	1	112.00	Main Center	Pasture and Forage Crops	15	Yes	
1996	Iron press	1	278.88	Main Center	Pasture and Forage Crops	16	Yes	
1996	Sander	1	245.41	Main Center	Pasture and Forage Crops	17	Yes	
1996	Chain block	1	289.51	Main Center	Pasture and Forage Crops	18	Yes	
1996	Jack	1	349.60	Main Center	Pasture and Forage Crops	19	Yes	
1996	Box wrench set (inch - mm)	1	292.39	Main Center	Pasture and Forage Crops	20	Yes	
1997	Box wrench set (10 - 32 mm)	1	279.49	Main Center	Pasture and Forage Crops	21	Yes	
1996	Box wrench set (mm)	1	439.88	Main Center	Pasture and Forage Crops	22	Yes	
1996	Vise	2	356.00	Main Center	Pasture and Forage Crops	23	Yes	
1996	Cutting machine	1	608.00	Main Center	Pasture and Forage Crops	24	No	Due to Electric Motor broke down
1996	Grinder	1	205.50	Main Center	Pasture and Forage Crops	25	Yes	
1996	Grease pump operated by air compressor	1	635.00	Main Center	Pasture and Forage Crops	26	Yes	
1996	Grease pump (manual)	1	94.85	Main Center	Pasture and Forage Crops	27	Yes	
1996	Oil pump	4	126.00	Main Center	Pasture and Forage Crops	28	Yes	
1996	Combiwrench set (inch)	1	164.57	Main Center	Pasture and Forage Crops	29	Yes	
1996	Combiwrench set (mm)	1	112.82	Main Center	Pasture and Forage Crops	30	Yes	
1996	Pipe wrench	3	84.68	Main Center	Pasture and Forage Crops	31	Yes	
1996	Monkey wrench	3	114.31	Main Center	Pasture and Forage Crops	32	Yes	

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1996	Drill (SCHLUZ)	1	1,093.19	Main Center	Pasture and Forage Crops	33	Yes	
1996	Pinchers	2	46.26	Main Center	Pasture and Forage Crops	34	Yes	
1996	Pinchers	2	155.26	Main Center	Pasture and Forage Crops	35	Yes	
1996	Drivver	10	51.75	Main Center	Pasture and Forage Crops	36	Yes	
1996	Element wrench	1	29.00	Main Center	Pasture and Forage Crops	37	Yes	
1996	Hand vise	2	41.40	Main Center	Pasture and Forage Crops	38	Yes	
1996	Hexagonal wrench set	2	220.78	Main Center	Pasture and Forage Crops	39	Yes	
1996	Hammer	4	26.00	Main Center	Pasture and Forage Crops	40	Yes	
1996	Saw metallic	1	17.60	Main Center	Pasture and Forage Crops	41	Yes	
1996	Punch and graver	2	76.04	Main Center	Pasture and Forage Crops	42	Yes	
1996	Extension code	2	368.00	Main Center	Pasture and Forage Crops	43	Yes	
1996	Nonius	1	183.54	Main Center	Pasture and Forage Crops	44	Yes	
1996	Zingso	1	132.25	Main Center	Pasture and Forage Crops	45	Yes	
1996	Electric plane	1	279.50	Main Center	Pasture and Forage Crops	46	Yes	
1996	Gas cutting machine	1	1,036.80	Main Center	Pasture and Forage Crops	47	Yes	
1996	Weldor (BOMBOZZI)	1	1,405.00	Main Center	Pasture and Forage Crops	48	Yes	
1996	Lantern	2	39.00	Main Center	Pasture and Forage Crops	49	Yes	
1996	Viny! seet	8	336.00	Main Center	Pasture and Forage Crops	Consumption goods		
1996	Spring balance	4	295.20	Main Center	Feeding and Manegement	50	Yes	
1996	Balance	2	1,043.00	Main Center	Feeding and Manegement	51	Yes	
1996	Rope	300	120.60	Main Center	Feeding and Manegement	Consumption goods		
1996	Rope	300	193.13	Main Center	Feeding and Manegement	Consumption goods		
1996	Rain jacket	10	191.40	Main Center	Feeding and Manegement	Consumption goods		
1996	Brand set	2	303.94	Main Center	Feeding and Manegement	52	Yes	
1996	Safety shoes	30	682.50	Main Center	Feeding and Manegement	Consumption goods		
1996	Gom boots	50	535.50	Main Center	Feeding and Manegement	Consumption goods		
1996	Overoll	60	1,050.00	Main Center	Feeding and Manegement	Consumption goods		
1996	Harness set	5	563.10	Main Center	Feeding and Manegement	53	Yes	
1996	Lasso	20	640.40	Main Center	Feeding and Manegement	54	Yes	
1996	FMD(foot and mouth disease) Vakzin	20	216.80	Main Center	Feeding and Manegement	Consumption goods		
1996	Blackleg vakzin	40	32.80	Main Center	Feeding and Manegement	Consumption goods		
1996	Antrax vakzin	15	27.60	Main Center	Feeding and Manegement	Consumption goods		
1996	Rabies vakzin	30	76.20	Main Center	Feeding and Manegement	Consumption goods		
1996	Brucellosis vakzin	20	77.00	Main Center	Feeding and Manegement	Consumption goods		
1996	Anthelmintics Ivomex-F	15	1,502.10	Main Center	Feeding and Manegement	Consumption goods		

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1996	Anthelmintics SHELL	30	69.90	Main Center	Feeding and Management		Consumption goods	
1996	Oxitetracycline	30	206.40	Main Center	Feeding and Management		Consumption goods	
1996	Piroplasmosis preventive medicine	30	169.80	Main Center	Feeding and Management		Consumption goods	
1996	Salt mineral	1	349.60	Main Center	Feeding and Management		Consumption goods	
1996	Mineral	30	34.80	Main Center	Feeding and Management		Consumption goods	
1996	Vitamin A D E	30	70.90	Main Center	Feeding and Management		Consumption goods	
1996	Forrage dry oven (MEMMERT)	2	22,552.00	Main Center	Pasture and Forage Crops	55	Yes	
1996	Forrage roll mill (THOMAS WILLY)	2	25,108.00	Main Center	Pasture and Forage Crops	56	Yes	
1996	Screen	2	450.00	Main Center	Pasture and Forage Crops	57	Yes, No	Returned from Yabare
1996	Frozen sperm	450	9,611.40	Main Center	Genetic Improvement of Beef Cattle		Consumption goods	
1996	Embryo	85	39,850.00	Main Center	Genetic Improvement of Beef Cattle		Consumption goods	
1996	Embryo	11	15,500.00	Main Center	Genetic Improvement of Beef Cattle		Yes	
1996	Donor	15	268.20	Main Center	Embryo Transfer and Reproductive Health Control		Consumption goods	
1996	Embryo collector set	5	56.88	Main Center	Embryo Transfer and Reproductive Health Control		Consumption goods	
1996	D-PBS	5	78.48	Main Center	Embryo Transfer and Reproductive Health Control		Consumption goods	
1996	Serum	1	185.76	Main Center	Embryo Transfer and Reproductive Health Control		Consumption goods	
1996	Albumin serum	10	75.40	Main Center	Embryo Transfer and Reproductive Health Control		Consumption goods	
1996	Transfer medium	20	1,440.00	Main Center	Embryo Transfer and Reproductive Health Control		Consumption goods	
1996	FSH	5	160.50	Main Center	Embryo Transfer and Reproductive Health Control		Consumption goods	
1996	Etylenglicol	1	6,311.56	Main Center	Embryo Transfer and Reproductive Health Control	58	Yes	
1996	Program freezer (FREEZ CONTROL)	1	13,840.37	Main Center	Embryo Transfer and Reproductive Health Control	59	Yes	
1996	Bike (HONDA, XL125)	2	7,200.00	Main Center		60	Yes	
1996	Electronic balance (ALFLEX)	8	14,120.00	Main Center, Corral, Sub Center, CETABOL, Stock=1	Feeding and Management	61	Yes	
1996	Restraining stall (PANTANERA)	3	7,800.00	Main Center	Feeding and Management	62	Yes, No	Out of Use
1996	Station testing model institution maternity	1	45,044.95	Main Center	Feeding and Management		Yes	
1996	Shed with iron frame	4	34,875.00	Main Center	Feeding and Management		Yes	
1996	Refrigerator	3	2,187.00	Main Center 2 Sub Center 1	Feeding and Management	63	Yes	
1996	Dynamo	1	965.08	Yabaré	Feeding and Management	64	Yes	
1996	Television monitor	1	477.21	Main Center		65	Yes	
1996	Video deck	1	374.60	Sub Center		66	Yes	
1996	Slade proyector	3	1,095.03	Main Center Sub Center - CIABO		67	Yes	
1996	Screen	2	1,047.42	Veterinary Faculty (CAZRIA) UTB		68	Yes	
1996	Ice box (small)	1	46.18	Main Center	Feeding and Management	69	No	Lost
1996	Ice box (big)	1	123.15	Main Center	Feeding and Management	70	No	Lost
1996	Chain saw (HUSQVARNA)	1	1,118.31	Main Center	Feeding and Management	71	No	Not function

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1996	Chain saw (HUSQVARNA)	1	1,529.21	Main Center	Feeding and Management	72	Yes	
1996	Herbage mowing machine (HUSQVARNA)	2	2,832.00	Main Center	Feeding and Management	73	Yes	
1996	Station wagon 4 x 4	2	57,738.00	Main Center		74	Yes	
1996	Pick-up truck 4 x 4	2	42,400.00	Main Center Sub Center		75	Yes	
1996	Dynamo	1	9,301.65	Main Center	Feeding and Management	76	Yes	
1996	Computer and accessory (DOS V)	5	10,786.88	Main Center		77	Yes	
1996	Air conditioner (PANASONIC)	12	10,940.00	Main Center : 1 Sub Center : 4		78	Yes	
1996	Atomic absorption spectrochemical analysis machine (SHIMADZU, AA/6701)	1	100,000.00	CETABOL	Pasture and Forage Crops	79	Yes	
1996	Tire	1	1,814.40	Main Center			Consumption goods	

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1997	Tractor 90ps (FORD, 6630)	1	28,647.00	Sub Center	Pasture and Forage Crops	80	Yes	
1997	Front roder (SUPER TATU, RTA-6)	1	5,370.00	Sub Center	Pasture and Forage Crops	81	Yes	
1997	Rotary cutter (SUPER TATU, RODC)	1	3,100.00	Sub Center	Pasture and Forage Crops	82	Yes	
1997	Disc harrow (SUPER TATU, GNCR)	1	4,470.00	Sub Center	Pasture and Forage Crops	83	Yes	
1997	Disc plow (SUPER TATU, AF)	1	1,642.00	Main Center	Pasture and Forage Crops	84	Yes	
1997	Seed drill (SUPER TATU, PSA-21)	1	7,493.00	Sub Center	Pasture and Forage Crops	85	Yes	
1997	Back hoe attachment (SUPER TATU, RT)	1	7,180.00	Sub Center	Pasture and Forage Crops	86	Yes	
1997	Tool set	1	1,600.00	Sub Center	Pasture and Forage Crops	87	Yes	
1997	Embryo	19	8,012.00	Main Center	Genetic Improvement of Beef Cattle		Consumption goods	
1997	Sperm	540	4,299.00	Main Center	Genetic Improvement of Beef Cattle		Consumption goods	
1997	Donor	10	18,200.00	Main Center	Genetic Improvement of Beef Cattle		Yes	
1997	Embryo collector set	15	134.55	Main Center	Embryo Transfer and Reproductive Health Control		Consumption goods	
1997	Program freezer (FREEZ CONTROL)	1	7,780.63	Sub Center	Embryo Transfer and Reproductive Health Control	88	Yes	
1997	Forrage roll mill (NOGUEIRA, TN-8)	1	3,922.00	Main Center	Feeding and Management	89	Yes	
1997	Forrage mixer (NOGUEIRA, MN-1500)	1	2,669.00	Main Center	Feeding and Management	90	Yes	
1997	Station testing institution maternity	1 lote	12,081.15	Main Center Sub Center	Feeding and Management		Yes	
1997	Station wagon (NISSAN, PATROL)	1	26,945.00	Main Center		91	Yes	
1997	Micro bus (NISSAN URVAN)	1	19,800.00	Main Center		92	Yes	

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1997	Drain pump 2x2" HONDA	1	435.00	Main Center	Feeding and Manegement	93	Yes	
1997	Binocular	1	412.52	Main Center	Feeding and Manegement	94	Yes	
1997	Speed cutter 355mm 2000W DEWALT	1	490.00	Main Center	Feeding and Manegement	95	Yes	
1997	Sander BOSCH and Balance MOD ESP 15	1	594.33	Main Center	Feeding and Manegement	96	Yes	
1997	Electric fence TF-40 and Rolls (piolin electric) x 250m	1	625.42	Main Center	Feeding and Manegement		Yes	
1997	PAGESCAN COLOR FULL LOGITECH PRO, ZIP DRIVE, OCR PROGRAM	1	801.48	Main Center	Feeding and Manegement	97	Yes	
1997	Computer and accessory	1	2,527.99	Main Center	Feeding and Manegement	98	Yes	

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1998	Donor	74	50,920.00	Main Center 22 Sub Center 22	Genetic improvement of Beef Cattle		Yes	
1998	Sperm	280	3,963.20	Main Center	Genetic improvement of Beef Cattle		Consumption goods	
1998	Embryo	11	5,500.00	Main Center	Genetic improvement of Beef Cattle		Consumption goods	
1998	Freezer	1	440.00	Sub Center	Embryo Transfer and Reproductive Health Control	99	Yes	
1998	Electro ejaculator	1	2,400.00	CIABO		100	Yes	
1998	Farm animals management (station testing) maternity	1	10,071.90	Main Center	Feeding and Manegement		Yes	
1998	Station testing construction maternity	1	14,178.70	Main Center	Feeding and Manegement		Yes	
1998	Concrete mixer	1	960.00	Main Center	Feeding and Manegement	101	Yes	
1998	Saw table	1	470.00	Main Center	Feeding and Manegement	102	Yes	
1998	Restraining stall (PANTANERA)	2	6,850.00	Main Center Sub Center	Feeding and Manegement	103	Yes	
1998	Chainsaw (STHILL)	3	3,192.00	Main Center Sub Center Yabare	Feeding and Manegement	104	Yes	
1998	Drill electric	2	749.00	Main Center	Feeding and Manegement	105	Yes	
1998	Overall	50	602.83	Main Center			Consumption goods	
1998	Tractor 120ps (FORD, 8030)	1	37,706.30	CIABO	Pasture and Forage Crops	106	Yes	
1998	Rotary cutter	1	2,700.60	Main Center	Pasture and Forage Crops	107	Yes	
1998	Disc harrow	1	4,323.85	Yabare	Pasture and Forage Crops	108	Yes	
1998	Disc plow	1	4,669.34	Main Center	Pasture and Forage Crops	109	Yes	
1998	Seed drill	1	5,823.16	CIABO	Pasture and Forage Crops	110	Yes	
1998	Front roder	1	510.32	Sub Center	Pasture and Forage Crops	111	Yes	
1998	Front roder attachment	1	4,509.78	Sub Center	Pasture and Forage Crops	112	Yes	

Year	Descriptions of Goods	Quantity	Price (\$us)	Arrangement	Section	No.	Actual Condition	Reason of not function
1998	Hole dig machine	2	2,534.45	Main Center Sub Center	Pasture and Forage Crops	113	Yes	
1998	Cultivator	1	668.56	Main Center	Pasture and Forage Crops	114	Yes	
1998	Roll vailer	1	18,849.00	Main Center	Pasture and Forage Crops	115	Yes	
1998	Sprayer	1	5,500.00	Main Center	Pasture and Forage Crops	116	Yes	
1998	Trailer	2	10,600.00	Main Center Sub Center	Pasture and Forage Crops	117	Yes	
1998	Tractor tire	12	4,948.00	Main Center	Pasture and Forage Crops		Consumption goods	
1998	Station wagon tire	8	1,344.00	Main Center			Consumption goods	
1998	Pick-up truck tire	4	408.00	Main Center			Consumption goods	
1998	OHP	2	2,125.00	Main Center Sub Center		118	Yes	
1998	Multimedia proyector	1	6,500.00	Main Center		119	Yes	
1998	Tractor attachment	24	748.80	Main Center	Pasture and Forage Crops		Consumption goods	
1998	Tedder reke	1	7,785.00	Main Center	Pasture and Forage Crops	120	Yes	
1998	Tedder reke	2	5,320.00	Main Center	Pasture and Forage Crops	121	Yes	
1998	Combustible tank	1	5,793.00	CIABO	Pasture and Forage Crops	122	Yes	
1998	Dump trailer	1	92,000.00	Main Center	Feeding and Manegement		Yes	
1998	Corral construction materity	1	13,754.10	Main Center Sub Center	Feeding and Manegement		Yes	
1998	Farm animals management (station testing) materity	1	12,957.30	Main Center Sub Center	Feeding and Manegement		Yes	
1998	Station testing construction materity	1	12,957.30	Main Center Sub Center	Feeding and Manegement		Yes	

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1999	Sub-soilar	2	21,619.00	Main Center Sub Center	Pasture and Forage Crops	123	Yes	
1999	Tractor NEW HOLLAND 7630	1	25,850.00	Sub Center	Pasture and Forage Crops	124	Yes	
1999	Pick-up truck	1	20,000.00	Main Center		125	Yes	
1999	Frozen sperm (straw)	145	1,530.00	Main Center Sub Center	Genetic Improvement of Beef Cattle		Consumption goods	
1999	Parts of atomic absorption spectrochemical analysis machine	1	8,585.00	CETABOL	Pasture and Forage Crops	126	Yes	
1999	Calorimeter pomp CA-4 marca SHIMADZU	1	3,570.00	CETABOL	Pasture and Forage Crops	127	Yes	
1999	Bush cutter	1	2,036.00	Main Center	Pasture and Forage Crops	128	Yes	
1999	Air conditioner split type	2	2,140.00	Main Center		129	Yes	
1999	Receptor	28	8,120.00	Sub Center	Embryo Transfer and Reproductive Health Control		Yes	
1999	Feeder stock	30	8,840.00	Main Center	Feeding and Manegement		Yes	
1999	Donor	10	9,950.00	Main Center 5 Sub Center 5	Genetic Improvement of Beef Cattle		Yes	
1999	Feeding and management materity	1	26,454.32	Main Center Sub Center	Feeding and Manegement		Yes	
1999	Mower NEW HOLLAND 615	2	15,162.00	Main Center Sub Center	Pasture and Forage Crops	130	Yes	
1999	Roll Baler NEW HOLLAND 255	1	7,351.00	Sub Center	Pasture and Forage Crops	131	Yes	
1999	Tedder reke NEW HOLLAND 638	1	15,302.00	Sub Center	Pasture and Forage Crops	132	Yes	

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1999	Notebook Computer (Compaq Presario)	1	1,700.00	Main Center		133	Yes	
1999	Printer HP Laser 1100	1	645.00	Main Center		134	Yes	
1999	Embryo transfer materity	1	662.53	Main Center	Embryo Transfer and Reproductive Health Center		Consumption goods	
1999	Sprayer Profijet B16-220	1	2,290.00	Sub Center	Feeding and Manegement	135	Yes	
1999	Locker	1	440.00	Sub Center		136	Yes	
1999	Pro - Carne Program	1	650.00	Main Center	Genetic Improvement of Beef Cattle	137	Yes	
1999	Pro - Carne Program	1	935.00	Sub Center	Genetic Improvement of Beef Cattle	138	Yes	
1999	Cambridge roller with hydraulic system	1	1,550.00	Main Center	Pasture and Forage Crops	139	Yes	
1999	Bike Suzuki	1	2,200.00	Sub Center		140	Yes	
1999	Computer equipment and printer	1	1,560.00	ASOCEBU	ASOCEBU	141	Yes	
1999	Computer equipment (SAMSUNG) and printer (CANON BJC-1000)	1	670.00	Main Center		142	Yes	
1999	Corral shed and other	1	3,197.90	Main Center	Feeding and Manegement		Yes	
1999	Crane 2tn.	1	453.00	CIABO	Pasture and Forage Crops	143	Yes	
1999	Tire repairing tool	1	120.29	Sub Center	Pasture and Forage Crops	144	Yes	
1999	Air compressor and hoos	1	422.33	Sub Center	Pasture and Forage Crops	145	Yes	
1999	Spare of rotary cutter	3	88.46	Sub Center	Pasture and Forage Crops		Consumption goods	
1999	Embryo transfer and Artificial Insemination materity	1	88.46	Main Center	Embryo Transfer and Reproductive Health Center		Consumption goods	

CARRYING EQUIPMENT LIST

Year	Descriptions of Goods	Quantity	Price (Yen)	Arrangement	Section	No.	Actual Condition	Reason of not function and Remarks
1996	Personal Computer (IBM, THINK PAD 530CD)	1	360,000.00	Main Center		1	Yes	07/03/96 Dr. Hideo Tominaga
1996	CD-ROM DRIVE	1	44,900.00	Main Center		2	Yes	
1996	BATTERY BAG	1	13,500.00	Main Center		3	Yes	
1996	Printer (Canon BJC-455J)	1	60,000.00	Main Center		4	Yes	
1996	Cartridge (Canon.BCI-21) Color	3	3,600.00	Main Center			Article of Consumption	
1996	Cartridge (Canon BCI-21) Black	4	2,560.00	Main Center			Article of Consumption	
1996	Cable (Canon, IFC-DOS/V15)	1	3,000.00	Main Center		5	Yes	
1996	Reproduction Program 1	1	62,700.00	Main Center		6	Yes	
1996	Reproduction Program 2	1	9,350.00	Main Center		7	Yes	
1996	Reproduction Program 3	1	9,350.00	Main Center		8	Yes	
1996	Reproduction Program 4	1	9,350.00	Main Center		9	Yes	
1996	Reproduction Program 5	1	9,350.00	Main Center		10	Yes	
1996	Reproduction Program 6	1	5,280.00	Main Center		11	Yes	
1996	Reproduction Program 7	1	140,000.00	Main Center		12	Yes	
1996	Transformer (Toyo-den M-100N)	1	12,800.00	Main Center		13	Yes	

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1996	Personal Computer (PRFORMA 6310)	1	285,000.00	Main Center		14	Yes	18/07/96 Ing. Yoichi Okawara
1996	Memory Board (SIM 326-16M)	1	37,500.00	Main Center		15	Yes	
1996	Hard Disk (AV-1000HG/M)	1	32,000.00	Main Center		16	Yes	
1996	HP Printer (HP LASER JET 5L C-3941A)	1	52,500.00	Main Center		17	Yes	
1996	Printer Cable (GDT00092)	1	7,500.00	Main Center		18	Yes	
1996	Cable (99215S)	1	3,000.00	Main Center		19	Yes	
1996	TonnerCartridge (C3906A)	1	7,900.00	Main Center			Article of Consumption	
1996	Video Sysem (M2894J/C)	1	18,700.00	Main Center		20	Yes	
1996	Soft Ware Windows 3.0J	1	43,500.00	Main Center		21	Yes	
1996	Soft Ware Windows 95	1	10,500.00	Main Center		22	Yes	
1996	Soft Ware Ichitarou Version 5.0	1	10,300.00	Main Center		23	Yes	
1996	Soft Ware MS Project 95	1	18,800.00	Main Center		24	Yes	
1996	HP Scanner (HP SCANE JET 4S C1129A)	1	42,000.00	Main Center		25	Yes	
1996	Transformer (600AE)	1	16,000.00	Main Center		26	Yes	
1996	Soft Ware Magnet Version 1.0 J	1	17,800.00	Main Center		27	Yes	

Year	Descriptions of Goods	Quantity	Price (Yen)	Arrangement	Section	No.	Actual Condition	Reason of not function and Remarks
1996	Book (13 vols/LOT)	1	107,337.00	Main Center		28	Yes	14/08/96 Dr. Yutaka Taniguchi
1996	Catalogue Book (5vols/LOT)	1	7,500.00	Main Center		29	Yes	
1996	Hygro-Thermometer (SIGMA II QUARTZ TYPE)	1	41,600.00	Main Center	Pasture and Forage Crops	30	Yes	
1996	Recording Paper for 7 DAYS (for SIGMA II)	1	1,820.00	Main Center	Pasture and Forage Crops	31	Yes	
1996	Cartridge pen (12pcs/set SIGMA II)	1	11,700.00	Main Center	Pasture and Forage Crops		Article of Consumption	
1996	Barometer (Model: NSII-BQ)	1	41,600.00	Main Center	Pasture and Forage Crops	32	Yes	
1996	Recording Paper (for NSII-BQ)	1	1,170.00	Main Center	Pasture and Forage Crops		Article of Consumption	
1996	Digital Camera (Model: QV-30)	1	53,000.00	Main Center		33	Yes	
1996	AC Adaptor (AD-C61J for NSII-BQ)	1	2,250.00	Main Center		34	Yes	
1996	Conector Kit for Personal Computer (LK-10DV)	1	7,350.00	Main Center		35	Yes	
1996	Floppy Disc Drive (FD-10)	1	22,350.00	Main Center		36	Yes	
1996	Rain Fall Gauge (Bucket + Recorder)	1	152,000.00	Main Center	Pasture and Forage Crops	37	Yes	
1996	Recording Paper for 7 days (for above)	1	1,680.00	Main Center	Pasture and Forage Crops		Article of Consumption	
1996	Cartridge Pen 12pcs/set (for above)	1	11,700.00	Main Center	Pasture and Forage Crops		Article of Consumption	

Year	Descriptions of Goods	Quantity	Price (Yen)	Arrangement	Section	No.	Actual Condition	Reason of not function and Remarks
1996	Personal Computer (IBM Aptiva H75)	1	459,000.00	Main Center		38	Yes	14/08/96 Dr. Akira Chikamatsu
1996	Memory 16MB for ABOVE	1	30,000.00	Main Center		39	Yes	
1996	BJ Color Printer (AC100V BJC-455J)	1	62,000.00	Main Center		40	Yes	
1996	Printer Cable	1	1,800.00	Main Center		41	Yes	
1996	Ink Cartridge (BCI-21 COLOR)	3	3,840.00	Main Center			Article of Consumption	
1996	Ink Cartridge (BCI-21 BLACK)	4	2,720.00	Main Center			Article of Consumption	
1996	Transformer (AC220V Out AC100V 500VA)	1	7,000.00	Main Center		42	Yes	

Year	Descriptions of Goods	Quantity	Price (Yen)	Arrangement	Section	No.	Actual Condition	Reason of not function and Remarks
1996	Video Camera (CCD-TRV91)	1	154,000.00	Main Center		43	Yes	29/08/96 Dr. Akira Taya
1996	CONVERSION KIT (VCL-FS1KA)	1	70,000.00	Main Center		44	Yes	
1996	Tripod (VCT-1100RM)	1	38,500.00	Main Center		45	Yes	
1996	Zoom Microphone (ECM-HS1)	1	6,860.00	Main Center		46	Yes	
1996	Battery Pack (NP-F730)	1	8,400.00	Main Center		47	Yes	
1996	Accessory Kit (ACC KT-F-7)	1	12,950.00	Main Center		48	Yes	
1996	Video Tape (E6-60HME2)	5	4,550.00	Main Center			Article of Consumption	
1996	Video Tape (E6-120HME2)	5	5,950.00	Main Center			Article of Consumption	
1996	Video Tape (E6-180HME2)	5	10,150.00	Main Center		49	Yes	
1996	Rain Jacket (LCR-TRX2)	1	2,450.00	Main Center		50	Yes	
1996	Carrying Case (LCH-TRA)	1	8,400.00	Main Center		51	Yes	

Year	Descriptions of Goods	Quantity	Price (Yen)	Arrangement	Section	No.	Actual Condition	Reason of not function and Remarks
1996	Carrying Case (LCS-TRF)	1	3,290.00	Main Center		52	Yes	29/08/96 Dr. Akira Taya
1996	Video Cassette Recorder (WV-H3)	1	68,600.00	Main Center		53	Yes	
1996	Transformer (100VA)	1	3,500.00	Main Center		54	Yes	

Year	Descriptions of Goods	Quantity	Price (Yen)	Arrangement	Section	No.	Actual Condition	Reason of not function and Remarks
1996	Soft Ware Windows 95 Up Grade	1	10,500.00	Main Center	Embryo Transfer and Reproductive Health Central	55	Yes	11/10/96 Dr. Masatoshi Kuniyuki
1996	Brucella Antiserum 20ml	10	110,000.00	Main Center	Embryo Transfer and Reproductive Health Central		Article of Consumption	
1996	Tuberculin 5ml	10	22,000.00	Main Center	Embryo Transfer and Reproductive Health Central		Article of Consumption	
1996	Tribicase Soybross. 4311768 100g	1	6,700.00	Main Center	Embryo Transfer and Reproductive Health Central		Article of Consumption	
1996	Noble Agar 526-00054 100g	1	23,000.00	Main Center	Embryo Transfer and Reproductive Health Central		Article of Consumption	
1996	Chiole Medium 522-13535 500g	1	39,000.00	Main Center	Embryo Transfer and Reproductive Health Central		Article of Consumption	
1996	Campy Back 10pcs/pack	1	2,700.00	Main Center	Embryo Transfer and Reproductive Health Central		Article of Consumption	
1996	For Testing of Bovine Leukosis Antigen with Positive Serum	5	69,500.00	Main Center	Embryo Transfer and Reproductive Health Central		Article of Consumption	
1996	Antorin 10 FSH-R	30	105,000.00	Main Center	Embryo Transfer and Reproductive Health Central		Article of Consumption	
1996	Pronargon F	3	58,290.00	Main Center	Embryo Transfer and Reproductive Health Central		Article of Consumption	
1996	Potassium Penicillin G	5	4,500.00	Main Center	Embryo Transfer and Reproductive Health Central		Article of Consumption	
1996	Streptomycin Sulfate	1	1,750.00	Main Center	Embryo Transfer and Reproductive Health Central		Article of Consumption	
1996	Bovine Serum 16170-011 500ml	1	13,800.00	Main Center	Embryo Transfer and Reproductive Health Central		Article of Consumption	

Year	Descriptions of Goods	Quantity	Price (Yen)	Arrangement	Section	No.	Actual Condition	Reason of not function and Remarks
1997	GLOBE THERMOMETER	2	17,400.00	Main Center	Feeding and Management	56	Yes	14/07/97 Dr. Tadasuke Toda
1997	STAND	2	20,000.00	Main Center	Feeding and Management	57	Yes	
1997	DIGITAL THERMOMETER	1	59,000.00	Main Center	Feeding and Management	58	Yes	
1997	WIND VELOCITY METER ISA-67	1	129,000.00	Main Center	Feeding and Management	59	Yes	
1997	MONITOR FOR TEMPERATURE	1	91,000.00	Main Center	Feeding and Management	60	Yes	
1997	THERMOMETER "GENIUS No. 100085, 3000A"	1	59,000.00	Main Center	Feeding and Management	61	Yes	

Year	Descriptions of Goods	Quantity	Price (Yen)	Arrangement	Section	No.	Actual Condition	Reason of not function and Remarks
1997	ALUMINIUM VAT	40	78,000.00	Main Center	Pasture and Forage Crops	62	Yes	15/07/97 Dr. Yoshiro Tozawa
1997	PH TEST PAPER Ph1 - 11 (BOOK TYPE)	5	4,450.00	Main Center			Article of Consumption	
1997	CHRONGRAPH	1	70,500.00	Main Center	Pasture and Forage Crops	63	Yes	
1997	SOFTWARE (CD) JUST SYSTEM HANAKO Ver. 3.1	1	30,800.00	Main Center		64	Yes	
1997	SOFTWARE (CD) VISUAL dBASE Ver. 5.6	1	66,600.00	Main Center		65	Yes	
1997	SOFTWARE (CD) LOTUS SUPER OFFICE 97	1	24,000.00	Main Center		66	Yes	
1997	SOFTWARE (CD) JUST SYSTEM ICHITARO Ver. 8	1	15,600.00	Main Center		67	Yes	

Year	Descriptions of Goods	Quantity	Price (Yen)	Arrangement	Section	No.	Actual Condition	Reason of not function and Remarks
1997	PLUVIOGRAPH	1	141,000.00	Main Center	Pasture and Forage Crops	68	Yes	15/07/97 Dr. Koukichi Hosoda
1997	RECORDING CHART FOR PLUVIOGRAPH (7days)	3	4,350.00	Main Center	Pasture and Forage Crops	Article of Consumption		
1997	RECORDING CHART FOR SIGMA - II (7days)	3	5,040.00	Main Center	Pasture and Forage Crops	Article of Consumption		
1997	CARTRIDGE PEN	1	10,800.00	Main Center	Pasture and Forage Crops	Article of Consumption		
1997	RECORDING CHART FOR NS II - BQ	3	3,240.00	Main Center	Pasture and Forage Crops	Article of Consumption		
1997	BOOK	1	7,000.00	Main Center		69	Yes	
1997	QUARTZS THERMO-HYGROGRAPH SIGMA - II	1	38,500.00	Main Center	Pasture and Forage Crops	70	Yes	
1997	QUARTZS BAROGRAPH NSII - BQ	1	38,500.00	Main Center	Pasture and Forage Crops	71	Yes	

Year	Descriptions of Goods	Quantity	Price (Yen)	Arrangement	Section	No.	Actual Condition	Reason of not function and Remarks
1997	Mineral Oil 500ml.	1	3,960.00	Main Center	Embryo Transfer and Reproductive Health Control	Article of Consumption		17/08/97 Dr. Kazuo Soma

Year	Descriptions of Goods	Quantity	Price (Yen)	Arrangement	Section	No.	Actual Condition	Reason of not function and Remarks
1997	ETHANOL 500ml	1	1,000.00	Main Center	Embryo Transfer and Reproductive Health Control	Article of Consumption		07/08/97 Dr. Setsuo Hokonohara
1997	METHANOL 500ml	1	1,500.00	Main Center	Embryo Transfer and Reproductive Health Control	Article of Consumption		
1997	ACETONE 500ml	1	570.00	Main Center	Embryo Transfer and Reproductive Health Control	Article of Consumption		
1997	POTASSIUM HYDROXIDE 3g	1	500.00	Main Center	Embryo Transfer and Reproductive Health Control	Article of Consumption		
1997	SODIUM HYDROXIDE 3g	1	500.00	Main Center	Embryo Transfer and Reproductive Health Control	Article of Consumption		
1997	HYDROCHLORIC ACID 10ml	1	700.00	Main Center	Embryo Transfer and Reproductive Health Control	Article of Consumption		
1997	HYDROGEN PERXIDE 10ml	1	700.00	Main Center	Embryo Transfer and Reproductive Health Control	Article of Consumption		
1997	PHENOL 10ml	1	600.00	Main Center	Embryo Transfer and Reproductive Health Control	Article of Consumption		
1997	GIEMSA SOLUTION 10ml	1	700.00	Main Center	Embryo Transfer and Reproductive Health Control	Article of Consumption		

Year	Descriptions of Goods	Quantity	Price (Yen)	Arrangement	Section	No.	Actual Condition	Reason of not function and Remarks
1997	VETERINARY CONCERAL INJECTION	10	68,500.00	Main Center	Embryo Transfer and Reproductive Health Control	Article of Consumption		13/08/97 Dr. Kazuo Soma
1997	FSH	40	141,200.00	Main Center	Embryo Transfer and Reproductive Health Control	Article of Consumption		
1997	CATHETER	20	74,000.00	Main Center	Embryo Transfer and Reproductive Health Control	Article of Consumption		
1997	SUCROSE 500ml	2	1,710.00	Main Center	Embryo Transfer and Reproductive Health Control	Article of Consumption		
1997	VETERINARY PRONALGON-F INJECTION 10ml x 5v	8	152,000.00	Main Center	Embryo Transfer and Reproductive Health Control	Article of Consumption		
1997	STILL CAMERA "AUTOBOY LUNA" with SOFT CASE	1	24,600.00	Main Center	Embryo Transfer and Reproductive Health Control	72	Yes	
1997	CALF SERUM 500ml	3	27,600.00	Main Center	Embryo Transfer and Reproductive Health Control	Article of Consumption		

Year	Descriptions of Goods	Quantity	Price (Yen)	Arrangement	Section	No.	Actual Condition	Reason of not function and Remarks
1997	LATEX EXAMINATION GLOVES	2	5,800.00	Main Center	Embryo Transfer and Reproductive Health Center		Article of Consumption	13/08/97 Dr. Setsuo Hokonohara
1997	VACUUM BLOOD TUBE	4	8,800.00	Main Center	Embryo Transfer and Reproductive Health Center		Article of Consumption	
1997	RED RUBBER PLUG	100	1,400.00	Main Center	Embryo Transfer and Reproductive Health Center		Article of Consumption	
1997	SILICONE TUBE	1	20,800.00	Main Center	Embryo Transfer and Reproductive Health Center		Article of Consumption	
1997	SHORT LEG FUNNEL	1	1,300.00	Main Center	Embryo Transfer and Reproductive Health Center		Article of Consumption	
1997	PAPER for MEDICINES	1	500.00	Main Center	Embryo Transfer and Reproductive Health Center		Article of Consumption	
1997	DISPOSABLE SYRINGE	1	3,500.00	Main Center	Embryo Transfer and Reproductive Health Center		Article of Consumption	
1997	DISPOSABLE SYRINGE	1	2,800.00	Main Center	Embryo Transfer and Reproductive Health Center		Article of Consumption	
1997	DISPOSABLE SYRINGE	1	3,300.00	Main Center	Embryo Transfer and Reproductive Health Center		Article of Consumption	
1997	SYLINGE PUMP for TUBERCULIN	2	5,940.00	Main Center	Embryo Transfer and Reproductive Health Center		Article of Consumption	
1997	TWO STEP SYLINGE for TUBERCULIN	10	6,500.00	Main Center	Embryo Transfer and Reproductive Health Center		Article of Consumption	
1997	NEEDLE for VACUUM BLOOD TUBE	4	5,200.00	Main Center	Embryo Transfer and Reproductive Health Center		Article of Consumption	
1997	URETHRO CATHETER	2	4,600.00	Main Center	Embryo Transfer and Reproductive Health Center		Article of Consumption	
1997	CONCERAL	10	135,000.00	Main Center	Embryo Transfer and Reproductive Health Center		Article of Consumption	
1997	PRONALGON - F	2	38,000.00	Main Center	Embryo Transfer and Reproductive Health Center		Article of Consumption	
1997	GLYCEROL	2	2,160.00	Main Center	Embryo Transfer and Reproductive Health Center		Article of Consumption	
1997	LIDOCAINE INJECTION	5	13,500.00	Main Center	Embryo Transfer and Reproductive Health Center		Article of Consumption	
1997	STREPTOMYCIN SULFATE	3	4,950.00	Main Center	Embryo Transfer and Reproductive Health Center		Article of Consumption	
1997	PENICILLIN-G POTASSIUM SALT	3	2,700.00	Main Center	Embryo Transfer and Reproductive Health Center		Article of Consumption	
1997	AMPCILLIN for INFUSE UTERINE	4	10,800.00	Main Center	Embryo Transfer and Reproductive Health Center		Article of Consumption	
1997	PVP Iodin Solution 50ml	20	19,600.00	Main Center	Embryo Transfer and Reproductive Health Center		Article of Consumption	
1997	HEART INFUSION AGAR	1	8,835.00	Main Center	Embryo Transfer and Reproductive Health Center		Article of Consumption	
1997	HEART INFUSION BROTH	1	2,755.00	Main Center	Embryo Transfer and Reproductive Health Center		Article of Consumption	
1997	VIBRIO AGAR	1	5,035.00	Main Center	Embryo Transfer and Reproductive Health Center		Article of Consumption	
1997	TSI AGAR	1	1,900.00	Main Center	Embryo Transfer and Reproductive Health Center		Article of Consumption	
1997	SIM AGAR	1	2,400.00	Main Center	Embryo Transfer and Reproductive Health Center		Article of Consumption	
1997	VP MEDIUM	1	2,000.00	Main Center	Embryo Transfer and Reproductive Health Center		Article of Consumption	
1997	TGC MEDIUM without INDICATOR, FLUID 100g	1	2,000.00	Main Center	Embryo Transfer and Reproductive Health Center		Article of Consumption	
1997	TUBERCULIN 5ml	1	2,000.00	Main Center	Embryo Transfer and Reproductive Health Center		Article of Consumption	
1997	BRUCELLA ABORTUS ANTIGEN 20ml for TUBE AGGLUTINATION TEST	20	48,000.00	Main Center	Embryo Transfer and Reproductive Health Center		Article of Consumption	
1997	VETERINARY GONADTROPIN INJECTION	3	15,900.00	Main Center	Embryo Transfer and Reproductive Health Center		Article of Consumption	
1997	VETERINARY GONADTROPIN INJECTION	2	6,600.00	Main Center	Embryo Transfer and Reproductive Health Center		Article of Consumption	
1997	BOVINE LEUKEMIA ANTIGEN	5	55,000.00	Main Center	Embryo Transfer and Reproductive Health Center		Article of Consumption	

Year	Descriptions of Goods	Quantity	Price (Yen)	Arrangement	Section	No.	Actual Condition	Reason of not function and Remarks
1997	GONATROPIN	8	28,800.00	Main Center	Embryo Transfer and Reproductive Health Center		Article of Consumption	05/09/97 Dr. Akira Nakagawa
1997	SEROTROPIN	5	41,000.00	Main Center	Embryo Transfer and Reproductive Health Center		Article of Consumption	
1997	ANBICIRIN	10	29,000.00	Main Center	Embryo Transfer and Reproductive Health Center		Article of Consumption	

Year	Descriptions of Goods	Quantity	Price (Yen)	Arrangement	Section	No.	Actual Condition	Reason of not function and Remarks
1997	GLYCERIN	3	3,300.00	Main Center	Embryo Transfer and Reproductive Health Control		Article of Consumption	05/09/97 Dr. Akira Nakagawa
1997	EASYBREED	40	85,800.00	Main Center	Embryo Transfer and Reproductive Health Control		Article of Consumption	
1997	GLUCOSE INJECTION	3	9,600.00	Main Center	Embryo Transfer and Reproductive Health Control		Article of Consumption	
1997	GLUCOSE INJECTION	3	9,600.00	Main Center	Embryo Transfer and Reproductive Health Control		Article of Consumption	
1997	WORK BOOTS	1	3,000.00	Main Center	Embryo Transfer and Reproductive Health Control		Article of Consumption	
1997	OPERATION ROBE	1	7,000.00	Main Center	Embryo Transfer and Reproductive Health Control		Article of Consumption	
1997	CLEANER	2	12,000.00	Main Center	Embryo Transfer and Reproductive Health Control		Article of Consumption	
1997	APLICATOR for EASYBREED	5	11,500.00	Main Center	Embryo Transfer and Reproductive Health Control		Article of Consumption	

Year	Descriptions of Goods	Quantity	Price (Yen)	Arrangement	Section	No.	Actual Condition	Reason of not function and Remarks
1997	FACE TYPE PROBE FOR FAINERCTM - 303	2	41,200.00	Main Center	Feeding and Management	73	Yes	05/09/97 Dr. Tadasuke Toda

Year	Descriptions of Goods	Quantity	Price (Yen)	Arrangement	Section	No.	Actual Condition	Reason of not function and Remarks
1997	NOUGYOU GIJYUTSU TAIKEI VOL. 1	1	12,589.00	Main Center		74	Yes	17/09/97 Technical Equipment Dispatched from Japan
1997	NOUGYOU GIJYUTSU TAIKEI VOL. 3	1	12,589.00	Main Center		75	Yes	
1997	NOUGYOU GIJYUTSU TAIKEI VOL. 4	1	12,589.00	Main Center		76	Yes	
1997	NOUGYOU GIJYUTSU TAIKEI VOL. 5	1	12,589.00	Main Center		77	Yes	
1997	NOUGYOU GIJYUTSU TAIKEI VOL. 7	1	12,589.00	Main Center		78	Yes	
1997	NOUGYOU GIJYUTSU TAIKEI VOL. 8	1	12,589.00	Main Center		79	Yes	
1997	BEEF CATTLE	1	25,489.00	Main Center		80	Yes	

Year	Descriptions of Goods	Quantity	Price (Yen)	Arrangement	Section	No.	Actual Condition	Reason of not function and Remarks
1997	OXITOCIN INJECTION	8	27,760.00	Main Center	Embryo Transfer and Reproductive Health Control		Article of Consumption	05/11/97 Technical Equipment Dispatched from Japan
1997	ISOGINE SOLUTION	10	62,500.00	Main Center	Embryo Transfer and Reproductive Health Control		Article of Consumption	
1997	DIMETOXYNE	5	13,000.00	Main Center	Embryo Transfer and Reproductive Health Control		Article of Consumption	
1997	PROCAINE PENICILLING	5	11,450.00	Main Center	Embryo Transfer and Reproductive Health Control		Article of Consumption	
1997	TERRAMYCIN INJECTABLE SOLUTION	5	6,250.00	Main Center	Embryo Transfer and Reproductive Health Control		Article of Consumption	
1997	DIHYDRO STREPTOMYCIN SULFATE	1	8,350.00	Main Center	Embryo Transfer and Reproductive Health Control		Article of Consumption	
1997	DICLOXA OINTMENT DRY COW SYRINGETYPE	20	114,600.00	Main Center	Embryo Transfer and Reproductive Health Control		Article of Consumption	
1997	DICLOXA OINTMENT LACTATING COW SYRING TYPE	80	183,200.00	Main Center	Embryo Transfer and Reproductive Health Control		Article of Consumption	
1997	TERRAMYCIN INTRAUTERINE FOAMING TABLETS	10	20,800.00	Main Center	Embryo Transfer and Reproductive Health Control		Article of Consumption	
1997	OSVAN SOLUTION	20	10,800.00	Main Center	Embryo Transfer and Reproductive Health Control		Article of Consumption	
1997	PACOMA 1L	10	8,300.00	Main Center	Embryo Transfer and Reproductive Health Control		Article of Consumption	
1997	AGAR EIKEN 500G	1	11,560.00	Main Center	Embryo Transfer and Reproductive Health Control		Article of Consumption	

Year	Descriptions of Goods	Quantity	Price (Yen)	Arrangement	Section	No.	Actual Condition	Reason of not function and Remarks
1997	BROMO THYMOL BLUE	2	4,380.00	Main Center	Embryo Transfer and Reproductive Health Control		Article of Consumption	05/11/97
1997	Sodium Dodecyl Benzen Sulfonate 250g	20	71,600.00	Main Center	Embryo Transfer and Reproductive Health Control		Article of Consumption	Technical Equipment Dispatched from Japan
1997	URO PAPER	1	7,320.00	Main Center	Embryo Transfer and Reproductive Health Control		Article of Consumption	
1997	Trypticase Soybruth 500g	1	6,560.00	Main Center	Embryo Transfer and Reproductive Health Control		Article of Consumption	
1997	AGAR NOBLE	1	23,420.00	Main Center	Embryo Transfer and Reproductive Health Control		Article of Consumption	
1997	Trichosel Broth Modified 500g	1	13,610.00	Main Center	Embryo Transfer and Reproductive Health Control		Article of Consumption	
1997	XYLOCAINE INJECTION	10	21,100.00	Main Center	Embryo Transfer and Reproductive Health Control		Article of Consumption	
1997	THIOLMEDIUM 500g	1	39,190.00	Main Center	Embryo Transfer and Reproductive Health Control		Article of Consumption	

Year	Descriptions of Goods	Quantity	Price (Yen)	Arrangement	Section	No.	Actual Condition	Reason of not function and Remarks
1997	COMPLEMENT DRIED 1ml x 10 60botellas/caja	5	115,800.00	Main Center	Embryo Transfer and Reproductive Health Control		Article of Consumption	14/11/97
1997	HEMOLYSIN SEIKEN 3ml	5	21,050.00	Main Center	Embryo Transfer and Reproductive Health Control		Article of Consumption	Technical Equipment Dispatched from Japan
1997	ANTIGEN FOR BRUCELLA COMPLEMENT BONDING 5ml	10	23,200.00	Main Center	Embryo Transfer and Reproductive Health Control		Article of Consumption	
1997	TUBERCULIN FOR ANIMAL 5ml	20	44,200.00	Main Center	Embryo Transfer and Reproductive Health Control		Article of Consumption	
1997	DIAGNOSE ANTIGEN FOR CATTLE LEUKEMIA	20	210,600.00	Main Center	Embryo Transfer and Reproductive Health Control		Article of Consumption	

Year	Descriptions of Goods	Quantity	Price (Yen)	Arrangement	Section	No.	Actual Condition	Reason of not function and Remarks
1997	CLEANER	2	8,200.00	Main Center	Embryo Transfer and Reproductive Health Control		Article of Consumption	19/02/98 Dr. Akira Taya
1997	CRYSTALLINE PENICILLIN G POTASSIUM	10	59,000.00	Main Center	Embryo Transfer and Reproductive Health Control		Article of Consumption	
1997	CONCERAL INJECTION	3	37,200.00	Main Center	Embryo Transfer and Reproductive Health Control		Article of Consumption	
1997	PRONALGON F INJECTION	5	92,500.00	Main Center	Embryo Transfer and Reproductive Health Control		Article of Consumption	
1997	ANTRIN	32	166,400.00	Main Center	Embryo Transfer and Reproductive Health Control		Article of Consumption	
1997	OHP FILM	2	10,800.00	Main Center	Embryo Transfer and Reproductive Health Control		Article of Consumption	
1997	LUX METER	1	27,000.00	Main Center	Pasture and Forage Crops	81	Yes	
1997	COUNTER	2	1,400.00	Main Center	Pasture and Forage Crops	82	Yes	
1997	RANCE-HEIGHT FINDER	1	42,700.00	Main Center	Pasture and Forage Crops	83	Yes	
1997	MAP MEASURER	1	3,150.00	Main Center	Pasture and Forage Crops	84	Yes	
1997	CLINOMETER	1	15,000.00	Main Center	Pasture and Forage Crops	85	Yes	

Year	Descriptions of Goods	Quantity	Price (Yen)	Arrangement	Section	No.	Actual Condition	Reason of not function and Remarks
1998	PERSONAL COMPUTER IBM, Aptiva L87	1	437,000.00	Main Center		86	Yes	08/06/98 Dr. Eitaro Imaizumi
1998	PRINTER CANNON, BJC-455J	1	44,800.00	Main Center		87	Yes	
1998	PRINTER CABLE	1	3,200.00	Main Center		88	Yes	
1998	SOFT WARE VIRUS BUSTER 98	1	6,800.00	Main Center		89	Yes	
1998	SOFT WARE EUDORA PRO 4.0J	1	11,100.00	Main Center		90	Yes	

Year	Descriptions of Goods	Quantity	Price (Yen)	Arrangement	Section	No.	Actual Condition	Reason of not function and Remarks
1998	SOFT WARE MS-OFFICE 97 STD	1	52,000.00	Main Center		91	Yes	08/06/98
1998	TRANSFORMER 600VA	1	13,000.00	Main Center		92	Yes	Dr. Eitaro Imaizumi

Year	Descriptions of Goods	Quantity	Price (Yen)	Arrangement	Section	No.	Actual Condition	Reason of not function and Remarks
1998	BALANCE B10S05 AC100V	1	125,000.00	Main Center		93	Yes	09/17/98
1998	SICKLE	20	63,400.00	Main Center		94	Yes	Article of Consumption Dr. Yoshihiro Tozawa
1998	MINI-BOX MEASURE	2	10,000.00	Main Center		95	Yes	
1998	P.H. METER	1	18,000.00	Main Center		96	Yes	
1998	PELVIS METER	2	73,000.00	Main Center		97	Yes	
1998	MEASURING TAPE	12	9,600.00	Main Center				

Year	Descriptions of Goods	Quantity	Price (Yen)	Arrangement	Section	No.	Actual Condition	Reason of not function and Remarks
1998	RISING PLATE METER	1	52,990.00	Main Center	Feeding and Management	98	Yes	17/09/98 Dr. Tadahiro Toda

Year	Descriptions of Goods	Quantity	Price (Yen)	Arrangement	Section	No.	Actual Condition	Reason of not function and Remarks
1998	PERSONAL COMPUTER IBM THINKPAD 385XD	1	300,000.00	Main Center		99	Yes	09/28/98
1998	TEN-KEY	1	6,200.00	Main Center		100	Yes	Ing. Takuji Okamoto
1998	MOUSE	1	3,600.00	Main Center		101	Yes	
1998	MEASURING POLE	1	79,300.00	Sub Center	Genetic Improvement of Beef Cattle	102	Yes	
1998	CARIPER	1	70,700.00	Sub Center	Genetic Improvement of Beef Cattle	103	Yes	
1998	MEASURING TAPE	2	1,480.00	Sub Center	Genetic Improvement of Beef Cattle	104	Yes	
1998	TECHNICAL BOOKS (3 vols./SET)	1	31,320.00	Sub Center		105	Yes	

Year	Descriptions of Goods	Quantity	Price (Yen)	Arrangement	Section	No.	Actual Condition	Reason of not function and Remarks
1998	BOVINE LEUKEMIA DIAGNOSIS ANTIGEN	1	100,000.00	Main Center	Embryo Transfer and Reproductive Health Control	Article of Consumption		10/07/98
1998	BRUCELLA RAPID DIAGNOSIS PATHOGEN LIQUID	3	135,000.00	Main Center	Embryo Transfer and Reproductive Health Control	Article of Consumption		Dr. Yuji Inaba
1998	TUBERCULLIN DIAGNOSIS LIQUID	2	40,000.00	Main Center	Embryo Transfer and Reproductive Health Control	Article of Consumption		

Year	Descriptions of Goods	Quantity	Price (Yen)	Arrangement	Section	No.	Actual Condition	Reason of not function and Remarks
1998	CRYOBIOLOGICAL CONTAINERS " MVE XC32/8 "	1	233,000.00	Main Center	Embryo Transfer and Reproductive Health Control	106	Yes	10/19/98
1998	FROZEN BULL'S SPERM (P1241HONAMI M B B JOURNALIST. ET)	1500	1,500,000.00	Main Center	Embryo Transfer and Reproductive Health Control	Article of Consumption		Dr. Eitaro Imaizumi
1998	FROZEN BULL'S SPERM (P5827SFL THOR R GERRICK. ET)	1500	1,500,000.00	Main Center	Embryo Transfer and Reproductive Health Control	Article of Consumption		
1998	FROZEN BULL'S SPERM (P5786WENT-STRAAT LDMAN ROK. ET)	1000	3,000,000.00	Main Center	Embryo Transfer and Reproductive Health Control	Article of Consumption		

Year	Descriptions of Goods	Quantity	Price (Yen)	Arrangement	Section	No.	Actual Condition	Reason of not function and Remarks
1998	ILLUMINATION BASE SZ-ILA-D	2	115,000.00	Main Center	Embryo Transfer and Reproductive Health Control	107	Yes	Dr. Tomokazu Hirai 11/09/98
1998	HEAT SEALER	1	28,500.00	Main Center	Embryo Transfer and Reproductive Health Control	108	Yes	
1998	VETERINARY PRONALGON INJECTION	5	100,000.00	Main Center	Embryo Transfer and Reproductive Health Control		Article of Consumption	
1998	EAZI - BREED	3	83,400.00	Main Center	Embryo Transfer and Reproductive Health Control		Article of Consumption	
1998	POLY GLOVES	5	9,500.00	Main Center	Embryo Transfer and Reproductive Health Control		Article of Consumption	

Year	Descriptions of Goods	Quantity	Price (Yen)	Arrangement	Section	No.	Actual Condition	Reason of not function and Remarks
1998	PRONALGON F	10	194,000.00	Main Center	Embryo Transfer and Reproductive Health Control		Article of Consumption	Dr. Yoshitaka Nagamine 04/08/99
1998	ANTRIN 20	20	110,000.00	Main Center	Embryo Transfer and Reproductive Health Control		Article of Consumption	
1998	BALLOON KATHETER	10	39,000.00	Main Center	Embryo Transfer and Reproductive Health Control		Article of Consumption	
1998	BALLOON KATHETER	5	29,000.00	Main Center	Embryo Transfer and Reproductive Health Control		Article of Consumption	
1998	STEP CONNECTOR	10	12,500.00	Main Center	Embryo Transfer and Reproductive Health Control		Article of Consumption	
1998	Y - CONNECTOR	10	7,500.00	Main Center	Embryo Transfer and Reproductive Health Control		Article of Consumption	Lost
1998	LIGHTING SYSTEM	2	179,000.00	Main Center	Embryo Transfer and Reproductive Health Control	109	Yes, No	
1998	SCALE STICK (2m)	3	234,000.00	Main Center	Feeding and Management	110	Yes	

Year	Descriptions of Goods	Quantity	Price (Yen)	Arrangement	Section	No.	Actual Condition	Reason of not function and Remarks
1999	PERSONAL COMPUTER IBM (ThinkPad 1455 2166-465)	1	348,000.00	Main Center	Pature and Forrage Crops	111	Yes	Ing. Yuji Tokura 04/08/99
1999	BATTERY PACK (02K6525) IBM	3	54,000.00	Main Center	Pature and Forrage Crops	112	Yes	
1999	SOFT WARE (MS-Power Point 97)	1	12,800.00	Main Center	Pature and Forrage Crops	113	Yes	
1999	PRINTER (BJC-80V) CANON	1	39,800.00	Main Center	Pature and Forrage Crops	114	Yes	
1999	IMMAGE SCANNER (IS-12 Value Kit) CANON	1	8,800.00	Main Center		115	Yes	
1999	Portable Kit (NK-300) CANON	1	11,500.00	Main Center		116	Yes	
1999	INTERFACE CABLE (IFC-DOSV/15) CANON	1	2,600.00	Main Center		117	Yes	
1999	INK CARTRIDGE (BJC-11 Black) CANON	20	17,600.00	Main Center			Article of Consumption	
1999	INK CARTRIDGE (BJC-11 Color) CANON	20	35,200.00	Main Center			Article of Consumption	
1999	DIGITAL CAMERA (C-900 zoom) OLYMPUS	1	79,000.00	Main Center		118	Yes	
1999	FLOPPY DISC ADAPTOR (MAFP-2) OLYMPUS	1	10,800.00	Main Center		119	Yes	
1999	SMART MEDIA (M-16P2S) OLYMPUS	1	16,700.00	Main Center		120	Yes	
1999	BATTERY CHARGER (B-S1S) OLYMPUS	1	5,700.00	Main Center		121	Yes	
1999	BATTERY	1	2,230.00	Main Center		122	Yes	
1999	WEIGHT SCALE (2kg-1g TLC-100 STD) TANITA	1	29,000.00	Sub Center	Pature and Forrage Crops	123	Yes	
1999	WEIGHT SCALE (5kg-5g TLC-100 STD) TANITA	1	32,500.00	Main Center	Pature and Forrage Crops	124	No	
1999	CARTRIDGE PEN (x12) (SKD51-079) SATO	1	18,000.00	Main Center	Pature and Forrage Crops		Article of Consumption	
1999	RECORD PAPER (7 days x 55) (skab1684045)	2	3,600.00	Main Center	Pature and Forrage Crops		Article of Consumption	

Year	Descriptions of Goods	Quantity	Price (Yen)	Arrangement	Section	No.	Actual Condition	Reason of not function and Remarks
1999	SELF RECORD PAPER (7 days) SATO	2	4,800.00	Main Center	Pature and Forrage Crops	Article of Consumption		04/08/99 Ing. Yuji Tokura
1999	GREBN PAPER (7 days x 55) (skab1681540)	2	5,600.00	Main Center	Pature and Forrage Crops	Article of Consumption		
1999	ADAPTOR 9V TANITA	1	5,000.00	Main Center	A	125	Yes	
1999	TRANSFORMER (220V -117V 1KVA)	1	25,000.00	Main Center	A	126	Yes	

Year	Descriptions of Goods	Quantity	Price (Yen)	Arrangement	Section	No.	Actual Condition	Reason of not function and Remarks
1999	WASHER (No. 110)	40	88,000.00	Main Center		127	Yes	21/04/99 Dr. Eitaro Imaizumi
1999	TENSIOMETER (DIK-3150)	1	211,500.00	Main Center		128	Yes	
1999	DIGITAL ILUMINATOR (T-1H)	1	106,900.00	Main Center		129	Yes	
1999	STRAW 1000psc/set (FA332-2A) blue	20	120,000.00	Main Center	Embryo Transfer and Reproductive Health Control	Article of Consumption		
1999	STRAW 1000psc/set (FA332-2C) orange	5	30,000.00	Main Center	Embryo Transfer and Reproductive Health Control	Article of Consumption		
1999	STRAW 1000psc/set (FA332-2E) green	5	30,000.00	Main Center	Embryo Transfer and Reproductive Health Control	Article of Consumption		
1999	STRAW 1000psc/set (FA332-2B) violet	5	30,000.00	Main Center	Embryo Transfer and Reproductive Health Control	Article of Consumption		
1999	STRAW 1000psc/set (FA332) colorless	10	60,000.00	Main Center	Embryo Transfer and Reproductive Health Control	Article of Consumption		
1999	BRAIN HEART INFUSION 100g	4	16,800.00	Main Center	Embryo Transfer and Reproductive Health Control	Article of Consumption		
1999	Gas pack (10psc/set) BBL	10	21,500.00	Main Center	Embryo Transfer and Reproductive Health Control	Article of Consumption		
1999	Campy pack 10pcs/set	10	27,500.00	Main Center	Embryo Transfer and Reproductive Health Control	Article of Consumption		
1999	2-Amino-2-hidroxy-methyl-1,3-propanediol	1	1,100.00	Main Center	Embryo Transfer and Reproductive Health Control	Article of Consumption		
1999	URO PAPER	2	11,900.00	Main Center	Embryo Transfer and Reproductive Health Control	Article of Consumption		
1999	DISH CULTURE	1	13,200.00	Main Center	Embryo Transfer and Reproductive Health Control	Article of Consumption		
1999	FILTER HOLDER	1	17,500.00	Main Center	Embryo Transfer and Reproductive Health Control	130	Yes	
1999	THIOL MEDIUM	1	41,500.00	Main Center	Embryo Transfer and Reproductive Health Control	Article of Consumption		
1999	Trypticase soy broth (500g)	2	14,000.00	Main Center	Embryo Transfer and Reproductive Health Control	Article of Consumption		
1999	BRUCELLA AGAR	2	22,800.00	Main Center	Embryo Transfer and Reproductive Health Control	Article of Consumption		
1999	AGAR	1	12,300.00	Main Center	Embryo Transfer and Reproductive Health Control	Article of Consumption		
1999	Trypticase soy agar (500g)	1	10,100.00	Main Center	Embryo Transfer and Reproductive Health Control	Article of Consumption		
1999	BATTERY PACK	2	13,000.00	Main Center		131	Yes	
1999	ELECTRIC FENCE VOLTMETER A20	2	25,200.00	Main Center	Feeding and Management	132	Yes	
1999	SODIUM AZIDE	1	900.00	Main Center		Article of Consumption		
1999	BRUCELLA DIAGNOSIS CEDM LIQUID 5ml	30	162,000.00	Main Center	Embryo Transfer and Reproductive Health Control	Article of Consumption		
1999	BRUCELLA DIAGNOSIS CEDM LIQUID 20ml	10	76,000.00	Main Center	Embryo Transfer and Reproductive Health Control	Article of Consumption		
1999	TUBERCULIN 5ml	20	44,000.00	Main Center	Embryo Transfer and Reproductive Health Control	Article of Consumption		

Year	Descriptions of Goods	Quantity	Price (Yen)	Arrangement	Section	No.	Actual Condition	Reason of not function and Remarks
1999	PRONALGON F 10ml x 5V	5	95,000.00	Main Center	Embryo Transfer and Reproductive Health Control	Article of Consumption		04/07/99 Dra. Satoko Matoba
1999	CATHETER FA361	10	42,000.00	Main Center	Embryo Transfer and Reproductive Health Control	Article of Consumption		

Year	Descriptions of Goods	Quantity	Price (Yen)	Arrangement	Section	No.	Actual Condition	Reason of not function and Remarks
1999	LEAD FOR ABOVE FA364-2	10	63,000.00	Main Center	Embryo Transfer and Reproductive Health Center		Article of Consumption	04/07/99 Dra. Satoko Matoba
1999	CATHETER 10pcs/set SF-BE14100	1	12,800.00	Main Center	Embryo Transfer and Reproductive Health Center		Article of Consumption	
1999	FILTER 50pcs/set SLGV025LS	2	34,200.00	Main Center	Embryo Transfer and Reproductive Health Center		Article of Consumption	
1999	FILTER 15pcs/set SKGV0101S	4	41,400.00	Main Center	Embryo Transfer and Reproductive Health Center		Article of Consumption	
1999	MICRO PIPETTE WITH TIP 1000pcs 10 - 100 ul	1	29,700.00	Main Center	Embryo Transfer and Reproductive Health Center		Article of Consumption	
1999	D-PBS T900	1	8,550.00	Main Center	Embryo Transfer and Reproductive Health Center		Article of Consumption	
1999	SACCHAROSE 500g 196-00015	1	800.00	Main Center	Embryo Transfer and Reproductive Health Center		Article of Consumption	
1999	PIPETTE	3	21,600.00	Main Center	Embryo Transfer and Reproductive Health Center		Article of Consumption	
1999	TC 199 500ml	2	2,700.00	Main Center	Embryo Transfer and Reproductive Health Center		Article of Consumption	
1999	D-PBS 500ml	2	2,700.00	Main Center	Embryo Transfer and Reproductive Health Center		Article of Consumption	
1999	BSA 100g	1	27,000.00	Main Center	Embryo Transfer and Reproductive Health Center		Article of Consumption	
1999	TC 199 11 x 10	1	7,200.00	Main Center	Embryo Transfer and Reproductive Health Center		Article of Consumption	

Year	Descriptions of Goods	Quantity	Price (Yen)	Arrangement	Section	No.	Actual Condition	Reason of not function and Remarks
1999	SURGICAL BLADE HOLDER NO.4	2	1,600.00	Main Center	Embryo Transfer and Reproductive Health Center		Article of Consumption	16/07/99 Dr. Mitsuo Oto
1999	SURGICAL BLADE NO.24	2	2,200.00	Main Center	Embryo Transfer and Reproductive Health Center		Article of Consumption	
1999	SCISSORS FC-53	1	5,000.00	Main Center	Embryo Transfer and Reproductive Health Center		Article of Consumption	
1999	SCISSORS FC-54	1	5,000.00	Main Center	Embryo Transfer and Reproductive Health Center		Article of Consumption	
1999	FORCEPS (KOHHEL) 150mm FC-111	3	16,500.00	Main Center	Embryo Transfer and Reproductive Health Center		Article of Consumption	
1999	FORCEPS (KOHHEL) 140mm FC-112	3	16,500.00	Main Center	Embryo Transfer and Reproductive Health Center		Article of Consumption	
1999	FORCEPS (PEAN) 150mm FC-120	2	11,000.00	Main Center	Embryo Transfer and Reproductive Health Center		Article of Consumption	
1999	NEEDLE HOLDER 180mm FC-206 (ROSEL)	1	26,900.00	Main Center	Embryo Transfer and Reproductive Health Center		Article of Consumption	
1999	NEEDLE HOLDER 180mm FC-207 (MIYAGI)	1	28,000.00	Main Center	Embryo Transfer and Reproductive Health Center		Article of Consumption	
1999	FORCEPS 200mm FC-230	2	14,600.00	Main Center	Embryo Transfer and Reproductive Health Center		Article of Consumption	
1999	OPERATION UNIFORM	7	48,300.00	Main Center	Embryo Transfer and Reproductive Health Center		Article of Consumption	
1999	STRING	2	39,200.00	Main Center	Embryo Transfer and Reproductive Health Center		Article of Consumption	
1999	CONTINUITY CYRINGE	1	18,200.00	Main Center	Embryo Transfer and Reproductive Health Center		Article of Consumption	
1999	INJECTION NEEDLE	1	1,400.00	Main Center	Embryo Transfer and Reproductive Health Center		Article of Consumption	
1999	INJECTION NEEDLE	1	1,200.00	Main Center	Embryo Transfer and Reproductive Health Center		Article of Consumption	
1999	INJECTION NEEDLE	1	1,300.00	Main Center	Embryo Transfer and Reproductive Health Center		Article of Consumption	
1999	STEEL COMB FOR CATTLE	1	3,200.00	Main Center	Embryo Transfer and Reproductive Health Center		Article of Consumption	
1999	FIXING STRING	4	39,600.00	Main Center	Embryo Transfer and Reproductive Health Center		Article of Consumption	
1999	POLYESTER DISPOSABLE GLOVE	6	13,800.00	Main Center	Embryo Transfer and Reproductive Health Center		Article of Consumption	
1999	EVEREST STETHOSCOPE	2	30,600.00	Main Center	Embryo Transfer and Reproductive Health Center		Article of Consumption	
1999	ANTORIN 40	20	196,000.00	Main Center	Embryo Transfer and Reproductive Health Center		Article of Consumption	
1999	EXTRUMATE	5	105,000.00	Main Center	Embryo Transfer and Reproductive Health Center		Article of Consumption	
1999	RUBBER BOOTS 3E	5	16,000.00	Main Center	Embryo Transfer and Reproductive Health Center		Article of Consumption	

Year	Descriptions of Goods	Quantity	Price (Yen)	Arrangement	Section	No.	Actual Condition	Reason of not function and Remarks
1999	DIGITAL VIDEO CASSETTE AY-DVM60E52 2/box	5	7,600.00	Main Center	Embryo Transfer and Reproductive Health Control		Article of Consumption	1999/7/16 Dr. Mitsuo Ota

Year	Descriptions of Goods	Quantity	Price (Yen)	Arrangement	Section	No.	Actual Condition	Reason of not function and Remarks
1999	ANTLINE	64	611,200.00	Main Center	Embryo Transfer and Reproductive Health Control		Article of Consumption	21/12/99 Dr. Eitaro Imaizumi
1999	CONCERAL	10	131,000.00	Main Center	Embryo Transfer and Reproductive Health Control		Article of Consumption	
1999	EAZI-BREED	4	119,200.00	Main Center	Embryo Transfer and Reproductive Health Control		Article of Consumption	
1999	SEETHE	10	34,000.00	Main Center	Embryo Transfer and Reproductive Health Control		Article of Consumption	
1999	POLYETHYLENE DICH CULTURE	1	13,500.00	Main Center	Embryo Transfer and Reproductive Health Control		Article of Consumption	
1999	DOC CARTRIDGE	1	44,800.00	Main Center	Embryo Transfer and Reproductive Health Control		Article of Consumption	
1999	FILTER	3	51,300.00	Main Center	Embryo Transfer and Reproductive Health Control		Article of Consumption	
1999	STERILIZED PACK	1	13,200.00	Main Center	Embryo Transfer and Reproductive Health Control		Article of Consumption	
1999	POLYETHYLENE GLOVES	40	71,200.00	Main Center	Embryo Transfer and Reproductive Health Control		Article of Consumption	
1999	ARTIFICIAL VAGINA RUBBER TUBE	22	86,240.00	Main Center	Embryo Transfer and Reproductive Health Control		Article of Consumption	
1999	SEMEN STRAW	5	34,500.00	Main Center	Embryo Transfer and Reproductive Health Control		Article of Consumption	

Year	Descriptions of Goods	Quantity	Price (Yen)	Arrangement	Section	No.	Actual Condition	Reason of not function and Remarks
2000	PARTS for SUB SOILAR 6Q3C SUGANO CHIZERUBUKUMI PN33	3	48,000.00	Main Center	Pasture and Forrage Crops	133	Yes	18/10/00 Dr. Norihisa Kitahara
2000	PARTS for SUB SOILAR 6Q3C SUGANO WAVE DISC (18pulgada, 4h.)	3	54,000.00	Main Center	Pasture and Forrage Crops	134	Yes	
2000	PARTS for SUB SOILAR 6QF3C SUGANO CHIZERUBUKUMI PN30	3	58,500.00	Sub Center	Pasture and Forrage Crops	135	Yes	
2000	PARTS for SUB SOILAR 6QF3C SUGANO WAVE DISC (18pulgada, 4h.)	3	54,000.00	Sub Center	Pasture and Forrage Crops	136	Yes	
2000	RECORDING PAPER SKAB1684045 SATO	1	1,700.00	Main Center	Pasture and Forrage Crops		Article of Consumption	
2000	INK (WEATHER ANALYSIS) SATO	1	17,000.00	Main Center	Pasture and Forrage Crops		Article of Consumption	
2000	SICKLE (195mm) SATO	20	28,000.00	Main Center	Pasture and Forrage Crops	137	Yes	
2000	SOIL-HARDNESS METER (YAMANAKA-STD.) SATO	1	64,000.00	Main Center	Pasture and Forrage Crops	138	Yes	
2000	NEON CABLE (100m) KITAHARA	1	24,000.00	Main Center	Pasture and Forrage Crops	139	Yes	

Year	Descriptions of Goods	Quantity	Price (Yen)	Arrangement	Section	No.	Actual Condition	Reason of not function and Remarks
2000	DIGITAL VIDEO CAMERA DCR-PC110	1	206,000.00	Main Center		140	Yes	18/10/00 Dr. Osamu Sasaki
2000	ACCESSORY KIT	1	24,000.00	Main Center		141	Yes	
2000	PC JOINT KIT	1	8,600.00	Main Center		142	Yes	
2000	SEMI SOFT CASE	1	4,100.00	Main Center		143	Yes	
2000	BATTERY PACK	1	6,600.00	Main Center		144	Yes	
2000	MEMORY STICK	2	8,800.00	Main Center		145	Yes	
2000	FD ADAPTER	1	9,500.00	Main Center		146	Yes	
2000	MINI DV CASSETTE	10	8,600.00	Main Center		147	Yes	

Year	Descriptions of Goods	Quantity	Price (Yen)	Arrangement	Section	No.	Actual Condition	Reason of not function and Remarks
2000	CLEANING SET FOR ABOVE	1	1,300.00	Main Center		148	Yes	18/10/00
2000	BATTERY	1	24,500.00	Main Center		149	Yes	Dr. Osamu Sasaki

ANNEX 8

The Result in the Distribution of Counter-Part

Main-Center

Name	The Field in Charge	The period of Training	Technical Transf. Effected by	The Period of Stay of Japanese Expert in Bolivia	Obsev.
Dr. Daniel Calderon Dr. Javier Landivar	Genetic Improvement	Abr./99~Jul./99 Jul./00~Sept./00	Akira Chikamatsu Takuji Okamoto	Jul./96~Feb./98 Feb./98~Jun./01	
Dr. Javier Ortiz Dr. Ludwig Lopez Dr. Juan Manuel Quezada	Embryo Transfer/ Reproductive Health	Mar./96~Jul./96 Ago./97~Dic./97 Ago./00~Nov./00	Kazuo Soma Mitsuo Oto	Ago./97~Jul./99 Jul./99~Jun./01	
Dr. Henry Gonzales Dr. Jose Silo Romero Tec. Wilfredo Quevedo M.	Feeding and Management	Mar./97~Jul./97 Abr./99~Jul./99	Hideo Tominaga	Jul./96~Jul./01	
Ing. Heriberto Salazar Dr. Ezequiel Jimenez	Pasture/ Forage Crop	Ago./97~Dic./97 Jul./00~Oct./00	Yutaka Taniguchi Takuji Okamoto Yuji Tokura	Jul./96~Ago./98 Oct./98~Mar./98 Abr./99~Jun./01	

Sub-Center

Name	The Field in Charge	The Period of Training	Technical Transf. Effected by	The Period of Stay Of Japanese Expert In Bolivia	Obsev.
Dr. Daniel Aponte Dra. Ma. Del Carmen Tapias	Genetic Improvement	Mar./00~Abr./00 Feb./96~Jul./96	Akira Chikamatsu Takuji Okamoto	Jul./96~Feb./98 Feb./98~Jun./01	
Dr. Moises Soletto Roca Dr. Fernando Gomez Dr. Pablo Balcazar	Reproductive Health	Feb./96~Jul./96 Sept./98~Ene./99	Kazuo Soma Mitsuo Oto	Ago./97~Jul./99 Jul./99~Jun./01	
Ing. Rolf Kolher Dr. Iver Arteaga	Feeding and Management	Mar./97~Jul./97	Hideo Tominaga	Jul./96~Jul./01	
Ing. Dorys Yopez Ing. Carlos Montano	Pasture and Forage Crop		Yutaka Taniguchi Takuji Okamoto Yuji Tokura	Jul./96~Ago./98 Oct./98~Mar./98 Abr./99~Jun./01	

ANNEX 9

Allocation of Budget by Bolivian Side

1.- The assignment of Human Resources.

The Bolivian Organizations related with the Project, have assigned a General Manager, an Administrative- Finance Manager, a Chief Accountant and as Counter Part Personnel 10 technicians for the Main Site and 9 technicians for the Sub-Site. and the others 7 to 8 employees distributed among different occupations as a secretary, clerks and motor vehicle driver.

2. The Provision of the Land Site, Facilities and Others.

The Universities and Private Organizations related with the Project, have secured the counter part personnel, and the cost of it partially covered by these private Institutions. The land site, some part of buildings and the medicines for veterinary use, all those required in the activity of the Project have been provided by the referred private Institutions. The Bolivia Side also has improved the pasture land, built bridges, constructed the roads inside of the Project Sites ,wired fences and the collateral Facilities.

3.-The Investment

The budget and the execution of budget since 1996 to 2000 are as followings.

The Main Site

The Budget:	US\$. 2,567,300.00
The Budget Executed:	US\$. 1,773,392.00

The Sub Site

The Budget:	US\$. 180,100.00
The Budget Executed:	US\$. 180,100.00

ANNEX 10

GENETIC IMPROVEMENT (MAIN CENTER)

ACTIVE PLAN		GOALS	PROGRESS & RESULTS	EVALUATION	REASON OF DELAY	FUTURE PLAN
ITEM	ACTIVITIES					
1. Genetic improvement of beef cattle.-		Establishment of guideline for improvement of Nelore.	Of the two polls realized to the farms and institutions related, we obtained the year of cattle introduction and the mating method.	3	As the second poll to the farmers was delayed, the data were too much delayed in being analyzed and the consequent respective results.	To put in order and analyze the content of the investigation.
(1) Investigation of the present situation:						
a. Investigating the time of introducing beef cattle breed Nelore and its principal strains and mating form.	Investigation of breeding farms and collecting reports about the time of introduction, mating form and main strains of Nelore.					
b. Investigating the practical use of AI and ET.	Investigation of yearly change of diffusion of AI and ET.					
c. Investigating the method for improving breeders and semi breeders.	Investigation by hearing from breeders.					
	Investigation of yearly change of distribution and use of semen, embryos and sire for natural mating.		The same research included the questions to find out the real situation about the improvement in AI and ET.	3	"	To put in order and analyze the content of the investigation.
			In the same research we included the activities of each farm and related institutions for the genetic improvement.	3	"	To put in order and analyze the content of the investigation.
			In the same research we included inquires about the real situation of reproduction method, supply of embryos and semen.	3	"	To put in order and analyze the content of the investigation.
(2) Establishment of the method of improving genetic performance of beef cattle:		Clarification of objectives of genetic improvement and proposition of effective system.	From the Project site and the farms participants of the performance testing, we obtained data about the weaning and birth. Presentation of provisional position in genetic improvement.	3	No data because of the difficulty of the compilation.	Getting better compiling more data.
a. Drawing up implementation techniques.	Examination and presentation of collecting method of data for improvement, and collecting data.					

b. Utilizing AI and ET.	Examination of mating method (AI, ET etc.) and application of ET for genetic improvement in the site.	Implementation of planned mating for genetic improvement using AI and ET.	Working out in a programme of services and a stationated mating.	4		Discussion for the application of the technic of ET for genetic improvement.
c. Development of basic breeding stocks.	Increasing superior basic breeding stocks through ET and other techniques in the site.	Production of superior breeding stocks in the site.	Improvement of Nelore herd, making discharge and programmed reproduction through the AI.	3	We need more data for the application of the technic of ET and genetic improvement.	To realize programmed reproduction using AI and discharge. A new study about ET is necessary.
	Collection and analysis of basic data (MPA and etc.) for genetic improvement in the site.	Presentation of standards of selection and elimination of cows in the site.	Presentation of an example about selection and discharge criteria., through the compilation an analysis of data of corporal deploment and reproduction results.	4		To continue with the analysis of the compiled data and to renovate the criteria of discharge.
	Collection and analysis of basic data (MPA and etc.) for genetic improvement in the farms.	Presentation of the method of elimination of cows in farms on the data basis.	Presentation as reference about the selection and discharge criteria through the analysis of data of corporal development and reproduction results.	4		To analyze the results.
(3) Establishment of the method of station performance testing of sires:						
a) Investigating the testing method conducted neighboring countries	Periodical investigation of station performance testing of sires in Paraguay and Brazil.	Improvement of the testing method.	Two trips realized to Paraguay and Brazil and made a system of Test.	4		To continue with the compilation of data.
b) Drawing up a method of station performance testing of sires.	Examination and implementation of trial testing. Improvement of testing method under results of trail testing and practice of improved testing.	Establishment of the testing method suitable to conduct continual testing.	Two assay testing realized, only in grass with an average of 726 g./day of dairy gain. In the group with supplement an average of 1230 g./day of dairy gain, and actually developing 3 rd Performance Test.	3	The waiting program was delayed. The seasoned waiting started last year. The calves would be candidates for the performance test.	To improve the quality of the Performance Testing through the continuity in the execution of Testing and the use of elite sires.
	Development of testing groups.	Establishment of the testing groups.	From the related institutions it has been constituted a Testing committee for appointment in the execution of Testing, and made a	3	The body of the system is established, but it will be need to strengthen.	To strengthen the committee of Testing, through the consolidation of the subsections.

c) Elaborating the manual of station performance testing of sires and related technology.	Elaboration of appropriate testing manuals through the testing.	Elaborating the testing manuals.	meeting for the selection of classified animals. To make the manual of execution of Test and the Testing Regulation	4		Improvement through the execution of the Performance Testing and analysis of data.
(4) Promotion of registration of the superior breeding stock:	Authorization of the sires through the station performance testing and others, and presentation of results to ASOCEBU.	Presentation of the testing results linked to registration.	Execution of the Testing together with ASOCEBU.	3	Relations between Testing results and Genealogical registers its still in process.	Coordination with ASOCEBU.
(5) Training of technicians:	Implementation of the integrated technical training course on the genetic improvement in collaboration with the four expertise in the project. The results of particular concerns will e prevailed in a specific seminar.	Implementation of the integrated technical training course and seminar.	It has been twice realized the training about the Testing.	3	Its needed more analysis of data due to the fluidity of themselves.	In the main Center, at February of 2001, is programmed to realize a seminar about genetic improvement and Performance testing.
(6) Utilization of personal computer etc.:	Data input, analysis and making out he reports through computer and utilization of OHP etc.	Effective utilization of personal computer and OHP etc.	Statistical analysis of the data and presentation of results in Power Point.	3	Almost ready for realize the process by computer.	Continuing training to the C/P.

b. Utilizing AI and ET.	Examination of mating method (AI, ET etc.) and application of ET for genetic improvement in the site.	Implementation of planned mating for genetic improvement using AI and ET.	Working out in a programme of services and a stationated mating.	3	Making the improvement only through AI.	Discussion for the application of the technic of ET for genetic improvement.
c. Development of basic breeding stocks.	Increasing superior basic breeding stocks through ET and other techniques in the site.	Production of superior breeding stocks in the site.	Improvement of Nelore herd, making discharge and programmed reproduction through the AI.	3	We need more data for the application of the technic of ET and genetic improvement.	To realize programmed reproduction using AI and discharge. A new study about ET is necessary.
	Collection and analysis of basic data (MPA and etc.) for genetic improvement in the site.	Presentation of standards of selection and elimination of cows in the site.	Presentation of an example about selection and discharge criteria., through the compilation an analysis of data of corporal depvelopment and reproduction results.	4		To continue with the analysis of the compiled data and to renovate the criteria of discharge.
	Collection and analysis of basic data (MPA and etc.) for genetic improvement in the farms.	Presentation of the method of elimination of cows in farms on the data basis.	Presentation as reference about the selection and discharge criteria through the analysis of data of corporal development and reproduction results.	4		To analyze the results.
(3) Establishment of the method of station performance testing of sires:						
a) Investigating the testing method conducted neighboring countries	Periodical investigation of station performance testing of sires in Paraguay and Brazil.	Improvement of the testing method.	Two trips realized to Paraguay and Brazil and made a system of Test.	4		To continue with the compilation of data.
b) Drawing up a method of station performance testing of sires.	Examination and implementation of trial testing. Improvement of testing method under results of trail testing and practice of improved testing.	Establishment of the testing method suitable to conduct continual testing.	Two assay testing realized, only in grass with an average of 507 g./day of dairy gain. Actually developing de 2 nd Performance Test.	2	Performance testing has made, but it need to be improved.	To improve the cuality of the Performance Testing through the continuity in the execution of Testing and the use of elite sires.
	Development of testing groups.	Establishment of the testing groups.	From the related institutions it has been constituted a Testing committee for appointment in the execution of Testing, and made a	3	The body of the system is established, but it will be need to strengthen.	To strengthen the committee of Testing, through the consolidation of the subsections.

c) Elaborating the manual of station performance testing of sires and related technology.	Elaboration of appropriate testing manuals through the testing.	Elaborating the testing manuals.	meeting for the selection of classified animals. To make the manual of execution of Test and the Testing Regulation	3	It is almost established, but need more modifications.	Improvement through the execution of the Performance Testing and analysis of data.
(4) Promotion of registration of the superior breeding stock:	Authorization of the sires through the station performance testing and others, and presentation of results to ASOCEBU.	Presentation of the testing results linked to registration.	Execution of the Testing together with ASOCEBU.	3	Relations between Testing results and Genealogical registers its still in process.	Coordination with ASOCEBU.
(5) Training of technicians:	Implementation of the integrated technical training course on the genetic improvement in collaboration with the four expertise in the project. The results of particular concerns will e prevailed in a specific seminar.	Implementation of the integrated technical training course and seminar.	It has been twice realized the training about the Testing.	3	Its needed more analysis of data due to the fluidity of themselves.	In the main Center, at February of 2001, is programmed to realize a seminar about genetic improvement and Performance testing.
(6) Utilization of personal computer etc.:	Data input, analysis and making out he reports through computer and utilization of OHP etc.	Effective utilization of personal computer and OHP etc.	Statistical analysis of the data and presentation of results in Power Point.	3	Almost ready for realize the process by computer.	Continuing training to the C/P.

Embryo Transfer and Reproductive Health Control (Main and Sub Center)

ACTIVE PLAN		GOAL	PROGRESS & RESULTS	EVALUATION	REASON OF DELAY	FUTURE PLAN
ITEM	ACTIVITIES					
2. Embryo Transfer and reproductive health control (1) Investigation of present situation :						
a. Investigation of the implementation of AI and ET at the participating farms of the station performance testing of sires.	Pre-investigation on breeder farms. Continuous investigation of improvement level about technology AI and ET in breeder farms.	Identifying present situation to be used for transferring technology.	Main Center; The participating farms were investigated about the reproductive conditions. Some data were not sufficient. Sub Center ; Some participating farms were investigated about the reproductive conditions.	3 3	The progress of ET and Reproductive health control division was wholly delayed, consequently the establishment of the techniques of embryo flushing and transfer had a priority. It was considered that the pre-investigation was the subject of the final year of the project, but it was not finished completely.	Investigation of the application of AI and ET in breeder farms once a year.
b. Investigation of the situation of reproductive diseases.	Investigation of reproductive diseases by rectal palpation and health examination in the site. Hearing from LIDIVET etc. about reproductive diseases. Investigation of reproductive diseases in participating farms.	Identifying present situation to be used for transferring technology.	Main Center ; The situation of reproductive health condition was grasped.	4		

(2) Establishment of the ET techniques :	a. Development of the techniques of embryo flushing, preservation and transfer.	Study on Nelore's characteristics on reproduction.	Establishment of suitable method for ET techniques.	Main Center ; Transferring basic techniques of embryo flushing, preservation and transfer was almost completed.	3	The real transferring technology started since the 3rd year of the project.	Continuation of regular embryo flushing, preservation and transfer.	
		Examination of method of superovulatory treatment on Nelore.						
		Examination of various factors (age, body weight etc.) on results of superovulatory treatment.			Sub Center ; Transferring elementary techniques of ET was completed, but basic techniques were not transferred.	2	Equipment was set up in the 4th year of the project in Sub Center, then transferring technology started.	Repeat training is necessary to establish the technology.
		Investigation of present situation of freezing method of embryo in Brazil and Bolivia.						
		Study on marketing situation of embryos.	Presentation of results (pregnancy rate etc.) on distributed embryos.	Main Center ; Frozen embryos imported from Brazil (115 embryos) were almost thawed and transferred to recipients, but the result was not good.	3	It was very difficult to use expensive embryos without a sufficient skill.	The present problem is a guarantee of a quality of imported frozen embryos.	
		Improvement of reproductive techniques (rectal palpation etc.).	Improvement of reproductive techniques (rectal palpation etc.) and acquirement of treatment techniques of non-infectious diseases.	The level of the technique of rectal palpation was improved, and the treatment of non-infectious reproductive diseases was possible.	4		Continuation of regular reproductive examinations.	
	b. Elaborating the manuals.	Elaboration of the manual of ET about Nelore etc.	Elaborating the manuals.	The manuals were elaborated.	4		Distribution to reproductive technicians.	
		Training apprentices received as assistant of C/P in daily activity, to give reproductive techniques and acknowledgement.	Several well-skilled ET technicians.	Main Center ; Some trainees from the university were received, but they were not for ET technicians.	2	The techniques of C/P were not established. It was impossible to receive any trainees.	Receiving trainees by observation only. It is too early yet to receive trainees for ET technicians.	
	c. Receive apprentices of ET.	(annually two persons having basic technique)		Sub Center ; Some trainees from the university just studied by observation.	1			

(3) Establishment of the method for reproductive health management :	a. Development of the health management system for sires tested by the station performance testing.	Examination of the health management schedule of sires at the time and during the period of performance test.	Elaborating the health management manuals.	Main Center ; Establishment of the health management system in cooperation with the old project(CIABO).	4		Continuation of the health management by the established system.
				Sub Center ; Establishment of the health management system in cooperation with CIABO and Main Center.	4		the same as the above.
	b. Development of the health management system of the sires in natural stud farms.	Investigation of present situation on health management. Collecting and examination of existing information and data.	Presentation of the health management system.	Main Center ; Establishment of the health management system in cooperation with CIABO.	4		the same as the above.
				Sub Center ; Establishment of the health management system in cooperation with CIABO and Main Center.	4		the same as the above.
c. Elaborating the manuals :	Elaborating the manuals suitable.	Elaborating the manuals.	Main Center ; The manuals were elaborated.	4		Distribution to the health management technicians.	
(4) Training of technicians :	Implementation of the integrated technical training course on the genetic improvement in collaboration with the four expertise in the project. The results of particular concerns will be prevailed in a specific seminar.	Implementation of the integrated technical training course and seminar.	Main Center ; Implementation of the integrated technical training course and seminar.	4		Achievement report for breeder farms once a year.	
			Sub Center ; Collaborate with Main Center.	4			
(5) Utilization of personal computer etc. :	Data input, analysis and marking out the reports through computer and utilization of OHP etc.	Effective utilization of personal computer and OHP etc.	Main Center ; Analysis of data by the computer.	4		Application for the achievement report.	
			Sub Center ; Computer was used for an accumulation of data, but not for analysis.	3			Equipment was set up in the 4th year of the project in Sub Center, then transferring technology started.

Main-Center in Santa Cruz

ITEM	ACTIVITIES	GOAL	PROGRESS CONDITION	EVA.	REASON FOR DELAY	FUTURE PLAN
3. Feeding and management of beef cattle. - (1) Investigation of the present situation: a. Investigating on the actual situation of feeding and management of beef cattle.	Investigation of growing, economical management and nutrition level for understanding of present situation:					
	Growing study: Measure monthly body weight, height and heart girth from birth to maturity.	Understanding the growing curve of cattle.	The introduction of Melore's herd was delayed, but the growing curve has been understood.	4		Improvement of more accuracy data.
	Nutrition level study: Studying the adequate method of the nutrition level of cattle through different type of feed and management. (Comparative nutrition level, blood analysis and BCS etc.)	Acquirement of the facile method for understanding nutrition level applicable to the district.	The BCS has been taught already. But the study of adequate method of nutrition level of cattle through different type of feed management be delaying.	3	It has taken priority the infrastructure of center.	Carry out to study different type of feed in the common farms.
	Economical management study: Study the method of economical analysis.	Presentation the method of economical analysis applicable to the district.	The method of economical analysis for beef cattle was presented.	4	It has taken priority the infrastructure of center.	Increase more case examples of economical analysis.
	Investigation of the present situation of feeding management of herd in the site.	Proposition of the plan of feeding and management in project site.	The present situation has been understood and proposed the plan of feeding and management.	4		Carry out the plan which proposed and shall reexamine it.
	Collecting the data periodically and continually in the common farms.	Understanding the present situation in common beef cattle farms. Presentation of the technical improvement.	Understood a few part of the situation in the common farms.	2	Stopped the investigation by reason of accident of farmers	The plan will be reexamine.
b. Investigating marketing.	Concerning the meat and feed distribution, to collect the statistics existed, and to study shipping price, selling system, meat grade, by-product through on site investigation.	Understanding the present situation of meat market. Utilization of their result for project activities.	The distribution, shipping price and condition of slaughter house has been understood and already used the result to Project.	4		The investigation will continue and improving accuracy data.
	Investigation through the questionnaire on meat palatability and consumer tendency in three prefectures.	Understanding the meat palatability and consumer tendency. (Using the result for beef fattening.)	The format for questionnaire was draw up. And the survey be realizing.	3	It has taken priority the infrastructure of center.	Collect questionnaire and will analysis.
(2) Demonstration of the improved grazing systems: a. Feeding Method by low cost.	Concerning the demonstration of grazing management to demonstrate grazing capacity and rotation by using electric fence.	Demonstration of the various technique of grazing management	The grazing system improved has demonstrated concerning on station performance testing and its effect of proved. The DC of 2nd test showed 726g/day and it has been applicate the fattening survey.	3	It has taken priority the infrastructure of center.	Try to appropriate more.
	Demonstration the technique of grazing management in each growing stage (period of suckling, raising and adult). (For example : creep-feeding and early weaning etc.)	Demonstration of the technique on razing management in each growing stage.	Demonstrated the technique of grazing management in each growing stage.	3	It has taken priority the infrastructure of center	Try to appropriate more.

	Demonstration the technique of grazing management in different groups (Nelore herd breed, donor and recipient cow).	Demonstration of the technique on grazing management in different groups.	Demonstrated the technique of grazing management in different group.	3	It has taken priority the infrastructure of center	Try to appropriate more.
b. Demonstrating the model installation of efficient management for herds of cattle.	Demonstration the herd management facilities applicable to the area. (For example: yard, fence, barn etc.) Study the trees existed in the area and to select of the applicable tree and to demonstrate the trees of windbreak and shedding.	Demonstration of the facilities applicable to the sub-tropical area. Demonstration of the effective trees of windbreak and shedding.	Demonstrated the herd management facilities necessary. (Yard, fence, electric fence, barn, warehouse, water supply facility, salt feeding, hay rack, quarantine facility etc.) Demonstrated the effect of windbreak and shedding. The windbreak and shedding has began to plant from 1998 and already were planted the six thousands trees.	3 3	It has taken priority the infrastructure of center. It has taken priority the infrastructure of center.	Try to appropriate more. Accumulate more data and will propose the manual adequate.
(3) Establishment of techniques for fattening:						
a. Development of the grazing management.	Demonstration the technique of grazing applicable to the area.	Demonstration the technique of fattening applicable to the area. Elaborating the manuals.	The survey cattle different eleven breed such as Europa, Zebu and it's FI has been introduced 38 head and showed result in middle period. The elaborating manual is not yet finished. The investigation will terminate on October 2001.	3	It has taken priority the infrastructure of center.	The meat quality study will teach by the short term expert on MAI 2001.
b. Studying the duration of fattening.	Study the period of fattening applicable to the area.					
c. Development of the technique of feeding.	Study the method of feeding applicable to the situation of feed supply in the area.					
d. Elaborating the manuals.	Elaborating the technical manual applicable to the area.					
(4) Training of technicians:	Implementation of the integrated technical training course on the genetic improvement in collaboration with the four expertise in the project. The results of particular concerns will be prevailed in a specific seminar.	Implementation of the integrate technical training course and seminar.	The feeding management which is related to station performance testing were resulted. The seminar of particular for feeding management will be organize on March 2001.	4		The seminar will be continua.
(5) Utilization of personal computer etc.:	Data input, analysis and making out reports through computer and utilization of OHP etc..	Effective utilization of personal computer and OHP etc..	It's be used effectively. The technical transfer to C/P has been terminated almost.	4		It will be study technique of application.

Feeding Management (Sub-Center in Beni)

ITEM	ACTIVITIE	GOAL	PROGRESS CONDITION	EVA.	REASON FOR DELAY	FUTURE PLAN
3. Feeding and management of beef cattle.-(1) Investigation of the present situation: a. Investigating on the actual situation of feeding and management of beef cattle.	Investigation of growing, economical management and nutrition level for understanding of present situation: Growing study: Measure monthly body weight, height and heart girth from birth to maturity.	Understanding the growing curve of cattle.	The Introduction of Nelore's herd was delayed, but the growing curve has been understood.	4		Improvement of more accuracy data
	Investigation of the present situation of feeding management of herd in the site.	Proposition of the plan of feeding and management in project site.	The present situation has been understood and proposed the plan of feeding and management.	4		Carry out the plan which proposed and shall reexamine it.
b. Investigating marketing.	Investigation through the questionnaire on meat palatability and consumer tendency in three prefectures.	Understanding the meat palatability and consumer tendency. (Using the result for beef	The format for questionnaire was draw up. And the survey be realizing by students of UTB in Beni.	3	It has taken priority the infrastructure of center.	Collect questionnaire and will analysis.

<p>(2) Demonstration of the improved grazing systems: a. Feeding Method by low cost.</p>	<p>Concerning the demonstration of grazing management to demonstrate grazing capacity and rotation by using electric fence.</p>	<p>Demonstration of the various technique of grazing management</p>	<p>The grazing system improved has demonstrated concerning on station performance testing and its effect of proved. The DG of 1st test showed 507g/day.</p>	3	<p>It has taken priority the infrastructure of center.</p>	<p>Try to appropriate more.</p>
	<p>Demonstration the technique of grazing management in each growing stage (period of suckling, raising and adult). (For example : creep-feeding and early weaning etc.)</p>	<p>Demonstration of the technique on razing management in each growing stage.</p>	<p>Demonstrated the technique of grazing management in each growing stage.</p>	3	<p>It has taken priority the infrastructure of center</p>	<p>Try to appropriate more.</p>
	<p>Demonstration the technique of grazing management in different groups (Nelore herd breed, donor and recipient cow).</p>	<p>Demonstration of the technique on grazing management in different groups.</p>	<p>Demonstrated the technique of grazing management in different group.</p>	3	<p>It has taken priority the infrastructure of center</p>	<p>Try to appropriate more.</p>
	<p>Demonstration the herd management facilities applicable to the area. (For example: yard, fence, barn etc.)</p>	<p>Demonstration of the facilities applicable to the sub-tropical area.</p>	<p>Demonstrated the herd management facilities necessary.(Yard, fence, electric fence, barn, warehouse, water supply facility, salt feeding, hay rack, quarantine facility etc.)</p>	3	<p>It has taken priority the infrastructure of center.</p>	<p>Try to appropriate more.</p>
	<p>Study the trees existed in the area and to select of the applicable tree and to demonstrate the trees of windbreak and shedding.</p>	<p>Demonstration of the effective trees of windbreak and shedding.</p>	<p>Demonstrated the effect of windbreak and shedding. The windbreak and shedding has began to plant from December 2000.</p>	3	<p>It has taken priority the infrastructure of center.</p>	<p>Accumurate more data and will propose the manual adequate.</p>

b. Demonstrating the model installation of efficient management for herds of cattle.						
(3) Training of technicians:	Implementation of the integrated technical training course on the genetic improvement in collaboration with the four expertise in the project. The results of particular concerns will be prevailed in a specific seminar.	Implementation of the integrate technical training course and seminar.	The feeding management which is related to station performance testing were resulted. The seminar of particular for feeding management will be organize on March 2001.	4		The seminar will be continua.
(4) Utilization of personal computer etc.:	Data input, analysis and making out reports through computer and utilization of OHP etc..	Effective utilization of personal computer and OHP etc..	It's be used effectively. The technical transfer to C/P has been terminated almost.	4		It will be study technique of application.

Pasture and Forage Crops (Main Center)

ACTIVE PLAN		GOALS	PROGRESS & RESULTS	EVALUATION	REASON OF DELAY	FUTURE PLAN
ITEM	ACTIVITIES					
Pasture and Forage Crops						
(1) Research on the present situation:						
a Investigating improved pastures in use	Research on the present situation of pasture in use (species, growth, productivity, components, palatability, etc.). Research on the present situation of forage production on site and the selection of appropriate pasture in the area. Research on the actual use of pasture in common farms (collecting the periodic and continuous data).	Selection of grass species appropriate to the area.	We carried out a study on 7 species of graminæ grasses in both the dry and the rainy seasons. DECUMBENS, MUTICA and MONBAZA can be adaptation species. We cultivated sorghum (7.8 ha. For forage & 10 ha. For grain) and seeded 3 varieties of sorghum and 1 of graminæ soil crops.	3 3	We were late starting the research because of our priority was to establish an infrastructure. We were late starting the research because of our priority was to extend the grassland area.	The ongoing research is to get more reliable data. We will cultivate other varieties and collect production data.
b Investigating natural grasses and feed trees	Research on the present situation of natural grassland and feed trees (species, growth, production/yield, components, palatability, etc.)	Selection of natural grasses and feed trees with high performance/yield.	We analyzed the components of <i>Gramma negra</i> and studied <i>Chamba</i> , <i>Guandu</i> , and <i>Moreras</i> for productivity and palatability.	3	We were late starting the research because of our priority was to establish an infrastructure.	To select <i>Chamba</i> as the adaptation specie. Need ongoing research to get more reliable data.
c Analyzing the soil component	Periodic analysis of the soil components in and around the site.	Acquisition of the techniques on soil analysis for cultivation of pasture and forage crops.	At the Main Center and on common farms and during both the dry and the rainy seasons, we analyzed soil data from every region for practical use.	4		To continue collecting periodic data at the Main Center.
d Making meteorological observations	Meteorological observations (data collection and analysis) in and around the main site.	Acquisitions of the techniques for using the results of the meteorological observations for the cultivation of pasture and forage crops.	We observed atmospheric pressure, air temperature, an precipitation at the Main Center from October 1997 and compared our data to CETABOL's and the Prefecture's.	4		To continue collecting data and comparing it with the other institution's and with historic data.
(2) Establishment of improved pasture management techniques.						
a Techniques for preparation and arrangement of grasslands.	Improving grasslands from wild to adapted pasture (including drainage) through the use of machinery (tractors, etc.)	Acquisition of the techniques of arranging the pasture through the use of easy to use machinery.	We arranged the pasture through infrastructure construction (e.g. drainage, inside roads, measurement, etc.).			To continue maintaining and managing of machine guidance.
b Demonstrating simple renovation of pasture.	Improvement of natural grassland through direct sowing, etc.	Demonstration of developed pasture through easy techniques.	We improved around 240 ha. grassland through renovation and simple renovation.	4		To compare the production/yield of renovation zone pasture to simple renovation zone.
c Techniques of grassland maintenance and management.	Burning, cutting, cleaning, clearing ant hills and brush, etc.	Acquisition of techniques on pasture management and maintenance.	We acquired the techniques.	4		To continue research to find more low cost methods.

ACTIVE PLAN		GOALS	PROGRESS & RESULTS	EVALUATION	REASON OF DELAY	FUTURE PLAN
ITEM	ACTIVITIES					
d Manual elaboration	Elaborating manuals applicable to the district.	Elaboration of manuals	We elaborated manuals.	4		To revise and update the manuals with new data.
(3) Establishment of the appropriate techniques for roughage preservation.						
a Development of techniques for preparation of hay	Preparation and storage of the hay necessary for breeding and fattening stocks.	Acquisition of the techniques for the production and storage of hay.	We produced 13 t hay	4		To continue techniques for production and improvement of hay.
b Development of the techniques for preparation of silage.	Preparation and storage of silage for breeding and fattening beef cattle during the dry season (introduction of sorghum to the sub site).	Acquisition of the techniques for the production and storage of silage.	We produced 80 t silage at the Main Center. Our evaluation of the quality came up to standard.	4		To produce silage according to need.
c Manual elaboration	Elaborating manuals applicable to the area.	Elaboration of manuals	We elaborated manuals.	4		To revise and update the manuals with new data.
(4) Training the technicians.	Implementation of an integrated technical training course on genetic improvement in collaboration with the four experts in the project. The results of our particular concerns will be presented at a specific seminar.	Implementation of the integrated technical training course and seminar.	We arranged the results achieved at the Main Center.	3	We will schedule the seminar in March.	To continue our research and schedule the seminar periodically.
(5) Utilization of personal computers, etc.	Data input, analysis, and preparing reports through the use of computers, OHP, etc.	Effective utilization of personal computers, OHP, etc.	We have already been using these tools effectively.	4		To continue using computers, OHP, etc.

Pasture and Forage Crops (Sub Center)

ACTIVE PLAN		GOALS	PROGRESS & RESULTS	EVALUATION	REASON OF DELAY	FUTURE PLAN
ITEM	ACTIVITIES					
Pasture and Forage Crops						
(1) Research on the present situation:						
a Investigating improved pastures in use	<p>Research on the present situation of pasture in use (species, growth, productivity, components, palatability, etc.).</p> <p>Research on the present situation of forage production on site and the selection of appropriate pasture in the area.</p> <p>Research on the actual use of pasture in common farms (collecting the periodic and continuous data).</p>	<p>Selection of grass species appropriate to the area.</p>	<p>We are researching 3 species of graminæ grasses and need more data on the species that were seeded last year.</p> <p>We are cultivating elephant grass and sugarcane for forage and lack data on those species that were seeded this year.</p> <p>We carried out the analysis for the components of the pasture on 2 farms.</p>	<p>2</p> <p>2</p> <p>2</p>	<p>We were late starting the research because of our priority was to establish an infrastructure.</p> <p>We were late starting the research because of our priority was to establish an infrastructure.</p> <p>We had difficulty collecting the periodic data because of most of the access routes to common farms were bad.</p>	<p>To continue our research and to analyze data we have.</p> <p>To continue our research on production and to establish the use of the forage.</p> <p>To research grass using common farms with regards to the use of improved pasture.</p>
b Investigating natural grasses and feed trees	<p>Research on the present situation of natural grassland and feed trees (species, growth, production/yield, components, palatability, etc.)</p>	<p>Selection of natural grasses and feed trees with high performance/yield.</p>	<p>We are researching 2 principal wild species of graminæ grasses to be able to establish a management method.</p>	<p>2</p>	<p>We were late due to the lack of information on these species, since they are not used in other countries.</p>	<p>To establish management of those species through researching them to better understand their characteristics/features.</p>
c Analyzing the soil component	<p>Periodic analysis of the soil components in and around the site.</p>	<p>Acquisition of the techniques on soil analysis for cultivation of pasture and forage crops.</p>	<p>We analyzed soil data from dry and damp zones at the sub-center.</p>	<p>3</p>	<p>We had difficulty collecting the data because many access routes to the common farms were bad.</p>	<p>To carry out our research to analyze data and to take advantage of and use the results we have.</p>
d Making meteorological observations	<p>Meteorological observations (data collection and analysis) in and around the main site.</p>	<p>Acquisitions of the techniques for using the results of the meteorological observations for the cultivation of pasture and forage crops.</p>	<p>We used the meteorological data from BENI TECHNOLOGICAL UNIVERSITY.</p>	<p>4</p>		<p>To continue the analysis of the collected data and to compare it with previous data from the area and with data available from other institutions.</p>

ACTIVE PLAN		GOALS	PROGRESS & RESULTS	EVALUATION	REASON OF DELAY	FUTURE PLAN
ITEM	ACTIVITIES					
(2) Establishment of improved pasture management techniques.						
a Techniques for preparation and arrangement of grasslands.	Improving grasslands from wild to adapted pasture (including drainage) through the use of machinery (tractors, etc.)	Acquisition of the techniques of arranging the pasture through the use of easy to use machinery.	We are arranging and maintaining the pasture through topographical studies in order to construct inside roads and drainage ditches.	4		To continue the transfer of techniques on maintaining the machine/equipment. To continue construction and maintaining of inside roads, drainage ditches, and shaded/shelter areas for the animals.
b Demonstrating simple renovation of pasture.	Improvement of natural grassland through direct sowing, etc.	Demonstration of developed pasture through simple techniques.	We undertook renovation and renovation of 30 ha. grassland.	4		To compare periodically the production/yield and growth data between renovation zone pasture to recovery zone pasture.
c Techniques of grassland maintenance and management.	Burning, cutting, cleaning, clearing ant hills and brush, etc.	Acquisition of techniques on pasture management and maintenance.	We are undertaking transfer of techniques for maintaining the pasture in the area where we are carrying out our main tests.	4		To study pasture maintenance at lower costs.
d Manual elaboration	Elaborating manuals applicable to the district.	Elaboration of manuals	We are elaborating the manuals.	4		To prepare manuals.
(3) Establishment of the appropriate techniques for roughage preservation.						
a Development of techniques for preparation of hay	Preparation and storage of the hay necessary for breeding and fattening stocks.	Acquisition of the techniques for the production and storage of hay.	We produced 5 t. hay	4		To continue producing hay and prepare a plan for using hay in the BENI region.
b Development of the techniques for preparation of silage.	Preparation and storage of silage for breeding and fattening beef cattle during the dry season (introduction of sorghum to the sub site).	Acquisition of the techniques for the production and storage of silage.	There was a transfer of textbook techniques on silage production.	4		Silage production to preserve forage areas has not been scheduled. Hay [production] will be used instead. To understand the situation of the use of silage in the region.
c Manual elaboration	Elaborating manuals applicable to the area.	Elaboration of manuals	We are elaborating the manuals.	4		To change the manual based on the new data we have.

ACTIVE PLAN		GOALS	PROGRESS & RESULTS	EVALUATION	REASON OF DELAY	FUTURE PLAN
ITEM	ACTIVITIES					
(4) Training the technicians.	Implementation of an integrated technical training course on genetic improvement in collaboration with the four experts in the project. The results of our particular concerns will be presented at a specific seminar.	Implementation of the integrated technical training course and seminar.	We are collating the results obtained from the transfer of techniques at the Sub-Center.	3	By scheduling the seminar in March we will have achieved this objective.	To continue our research and schedule seminars periodically.
(5) Utilization of personal computers, etc.	Data input, analysis, and preparing reports through the use of computers, OHP, etc.	Effective utilization of personal computers, OHP, etc.	We have been using these tools effectively.	4		To continue using computers, OHP, etc.

ANNEX 11 PROJECT DESIGN MATRIX BEEF CATTLE IMPROVING PROJECT IN BOLIVIA PDM

Narrative Summary	Verifiable Indicator	Means of Verification	Important Assumptions
<p>Over Goal The progress of productivity in beef cattle, the rise in income and secure of Bolivian farmers will be accomplished through the genetic improvement of beef cattle.</p>	<ol style="list-style-type: none"> 1. The number of superior cattle keeping will increase. 2. The gross beef product will increase. 3. Beef production will advance economically. 	<ol style="list-style-type: none"> 1. Annual and regional statistics for animal production in Bolivia 2. Annual and regional statistics for beef production in Bolivia 3. Cost survey of beef production in present status 	<ol style="list-style-type: none"> 1. National policy and the scheme for promotion of livestock industry in Bolivia are constant. 2. Absence of political change, long term abnormal climate and outbreak of non-eradicable diseases.
<p>Project Purpose Through the enforcement of planned introduction of superior Nelore, and related execute system, the total feeding techniques in beef cattle which include breeding, reproduction, and feed production will be improved.</p>	<ol style="list-style-type: none"> 1. Superior breed, fully adopted to local, will be selected by the technology transfer. 2. Newly transferred technology will take root continually. 	<ol style="list-style-type: none"> 1. Daily records in main and sub-site, Quarterly report, Daily working report 	<ol style="list-style-type: none"> 1. Continual supports from the cattle producers, Universities, prefecture, and the Government. 2. Improvement in technical skill of C/P makes integrated use of the pasture, facilities and testing sires.
<p>Results/Outputs</p> <ol style="list-style-type: none"> 1. Beef productivity was improved through the systematized genetic improvement for the direct station testing of beef cattle. 2. Genetic improvement in beef cattle was accelerated by AI and ET technology transfer. 3. Quarantine for introducing the animals was established in line with the sanitary technology transfer and by the arrangement of facilities. 4. An annual grazing system was introduced by the intensification of using electric fence. 5. By the acquirement of grazing technology fitted for grassland establishment and maintaining, the productivity of the forage crop and grass was improved 6. Because of the transfer of hay and roughage reservation techniques, alimentary condition of cattle was improved. 7. The manuals of transferred technology for each field were accomplished. 8. With the advance of technical maturity, C/P will able to train the technicians related to beef industry. 	<ol style="list-style-type: none"> 1. Possible to implement station performance test independently, and to contribute to the promotion of registration systems. 2. Implement of the embryo flushing, preservation and transfer to the recipient. 3. Establishment of the quarantine system for testing sires and periodical investigation system. 4. Model installation of efficient management for the herds. 5. Demonstration of the simplifying renovation techniques on pasture. 6. Revision of alimentary condition in wet and dry season by the establishment of roughage preservation techniques. 7. Elaboration of the manuals for technology transfer applicable to the beef farmers. 8. Implementation of training course. 	<ol style="list-style-type: none"> 1. Data of the activities in breeding improvement 2. AI and ET performance record 3. Record of health management schedule 4. Ledger of feeding number of cattle, milk production, culling and selling Numbers 5. Annual daily records of activities in grassland and forage crops 6. Annual daily records of activities in grassland and forage crops 7. Dia de Campo, Feria, News paper, TV publication 8. Training of C/P through the daily activities, C/P training in Japan 	<ol style="list-style-type: none"> 1. Strengthened management system makes the functions of administration activities. 2. The tight relationships among producers, prefecture, the Government and related experimental institutes will be kept continually. 3. No interference with personnel by University and others. 4. C/P can be stable to his position, faithful to his responsibility and cooperative to all parts over station testing operation.
<p>Activities</p> <ol style="list-style-type: none"> 1. Genetic improvement of beef cattle <ol style="list-style-type: none"> ① Investigation of the present situation ② Establishment of the method of improving genetic performance of beef cattle ③ Establishment of the method of station performance testing of sires ④ Promotion of registration of the superior breeding stock ⑤ Training of technicians ⑥ Utilization of personal computer 2. Embryo transfer and reproductive health control <ol style="list-style-type: none"> ① Investigation of present situation ② Establishment of the techniques of embryo flushing, preservation and transfer ③ Establishment of the method for reproductive health management ④ Training of techniques ⑤ Utilization of personal computer 3. Feeding and management of beef cattle <ol style="list-style-type: none"> ① Investigation of the present situation ② Demonstration of the improved grazing systems ③ Establishment of techniques for fattening ④ Training of technicians ⑤ Utilization of personal computer 4. Pasture and forage crop <ol style="list-style-type: none"> ① Investigation of the present situations ② Establishment of the improved pasture management techniques ③ Establishment of the appropriate techniques for roughage preservation ④ Training of technicians ⑤ Utilization of personal computer etc. 	<p>Inputs.</p> <p>Japanese side</p> <ol style="list-style-type: none"> 1. Dispatching the experts : Long term 6 (Leader, Genetic improvement, Embryo transfer and reproductive health control, Feeding and management, Pasture and forage crops, coordinator) Short term followed to the necessity 2. C/P training in Japan : 3 to 4 persons / year 3. Donation of equipment and materials : Frozen semen of superior sires, Frozen embryos, Donors, Recipients, Equipment for AI and ET, tractors <p>Bolivian site</p> <ol style="list-style-type: none"> 1. Counterparts, Clerk, Laborers 2. Site for project, Equipment and facilities for station testing 3. Supply, repair and renewal of the equipment used in station testing 4. Obtain of local cost 		<ol style="list-style-type: none"> 1. Basic facilities of both sites fix steadily and rapidly, and subsidiary equipment supply without any delay due to the Bolivian site. 2. Procedures for customs clearance of donated materials execute without any delay. 3. The public subscription system for employing C/P functions adequately and puts the right man in the fitted post and the budgets responsible to the Bolivian site are executed without delay. <p>Pre-conditions</p> <ol style="list-style-type: none"> 1. Cattle producers, Prefectures, Universities and the Central Government acknowledge the object and significance of the Project, and call for the existence of sire testing organization. 2. They are necessary to have the intention to support the activities of the station performance testing of sires continually.

The result and period of all seminar

The infrastructure of Project site are establishing and at last, we have established the system on final year of project.

Year	Name of course	Date	Period	Number of participant	Note
1999	The presentation of the first station performance test (For the grazing herd) Santa Cruz	1999/06/25	One day	80 pers.	Cooperate with four divisions.
2000	The presentation of the first station performance test (For the formula feed herd) Santa Cruz	2000/02/26	One day	80 pers.	Cooperate with four divisions
2000	The presentation of the first station performance test (For the grazing herd) Beni	2000/05/06	One day	80 pers.	Cooperate with four divisions.
2000	The presentation of the second station performance test (For the grazing herd) Santa Cruz	2000/07/01	One day	80 pers.	Cooperate with four divisions
2000	The presentation of the result of PMGBC Santa Cruz	2000/12/16	Plan	200 pers	Cooperate with four divisions
2000	The seminar of Embryo Transfer Santa Cruz	2001/02/	Plan	25 pers	Division Reproduction
2000	The seminar of Feeding-management and Pasture-Crop Santa Cruz	2001/03/	Plan	50 pers	Division Feeding and Pasture- crop
2000	The seminar of Feeding-management and Pasture-Crop Beni	2001/03/	Plan	50 pers.	Division Feeding and Pasture- crop
2000	The seminar of Genetic Improvement Santa Cruz	2001/03/	Plan	25 pers.	Division Genetic Improvement
2001	The presentation of the second station performance test (For the formula feed herd) Santa Cruz	2001/02/	Plan	80 pers.	Cooperate with four divisions
2001	The presentation of the result of PMGBC in Beni	2001/04/	Plan	150 pers.	Cooperate with four divisions
2001	The presentation of the third station performance test (For the grazing herd) Santa Cruz	2001/06/	Plan	80 pers.	Cooperate with four divisions
2001	The presentation of the second station performance test (For the grazing herd) Beni	2001/06/	Plan	80Pers.	Cooperate with four divisions

**MINUTA DE DISCUSION
ENTRE EL EQUIPO DE EVALUACION JAPONES
Y LAS AUTORIDADES DEL AREA DEL GOBIERNO DE BOLIVIA
SOBRE LA COOPERACION TECNICA JAPONESA
PARA EL PROYECTO DE MEJORAMIENTO DE GANADO BOVINO DE CARNE
EN LA REPUBLICA DE BOLIVIA**

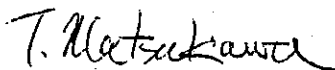
Aproximadamente 5 meses antes de finalización de la cooperación al Proyecto de Mejoramiento de Ganado Bovino de Carne en la República de Bolivia (en adelante se refiere como "El Proyecto") en el día 30 de Junio 2001, que comenzó en el día 1 de Julio 1996, como fue establecido en Registro de Discusión (en adelante se refiere como "R/D"), el Equipo de Evaluación Japonesa (en adelante se refiere como "El Equipo") organizado por La Agencia de Cooperación Internacional del Japón (en adelante se refiere como "JICA"), encabezada por el Dr. Tadashi Matsukawa, visitó a la República de Bolivia desde el día 10 a 16 de Enero de 2001.


El EQUIPO tuvo una serie de discusiones con las autoridades pertinentes del Gobierno de Bolivia, efectuó investigación del campo e intercambió opiniones con la parte boliviana sobre puntos de vista técnicos y administrativos.

Como resultado de las discusiones, ambas partes acordó recomendar a sus respectivos gobiernos los asuntos referidos en los documentos adjuntos a esta minuta.


Esta minuta está elaborada tanto en Ingles como en Español, siendo ambas igualmente autenticas. En caso de alguna discrepancia de interpretación, prevalecerá el texto en Ingles.

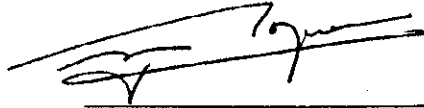
Santa Cruz, 16 de Enero de 2001



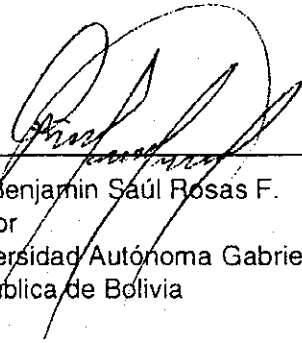

Dr. Tadashi Matsukawa,
Jefe de Equipo Japonés de Evaluación
Agencia de Cooperación Internacional
del Japón
Japón



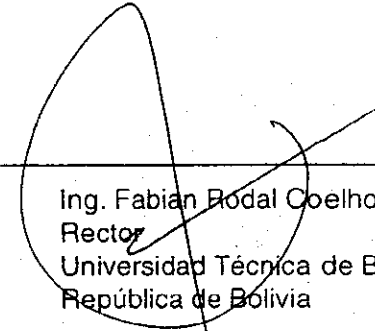

Lic. Hugo Carvajal Donoso
Ministro,
Ministerio de Agricultura, Ganadería y
Desarrollo Rural
República de Bolivia



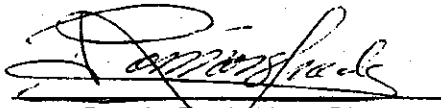
Lic. Bernardo Requena
Viceministro
Viceministerio de Inversión Pública y Financiamiento Externo
Ministerio de Hacienda
República de Bolivia



Lic. Benjamin Saúl Rosas F.
Rector
Universidad Autónoma Gabriel Rene Moreno
República de Bolivia



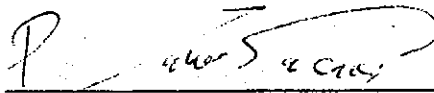
Ing. Fabian Rodal Coelho
Rector
Universidad Técnica de Beni
República de Bolivia



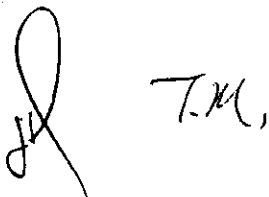
Ing. Ramón Prada Vaca Diez
Prefecto
Prefectura de Departamento de Santa Cruz
República de Bolivia



Ing. Ernesto Suarez Sattori
Prefecto
Prefectura de Departamento de Beni
República de Bolivia



Ing. Yasuyuki Kohori
Director
Centro Tecnológico Agropecuario en Bolivia
Agencia de Cooperación Internacional del Japón
Japón



**MINUTA DE DISCUSION
DEL EQUIPO DE EVALUACION CONJUNTA
SOBRE LA COOPERACION TECNICA JAPONESA
PARA EL PROYECTO DE MEJORAMIENTO DE GANADO BOVINO DE CARNE
EN LA REPUBLICA DE BOLIVIA**

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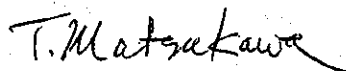
El Comité de Evaluación Conjunta (en adelante se refiere como "EL CEC") fue organizado entre el Equipo Japonés de Evaluación antes mencionado y el Equipo Boliviano de Evaluación encabezado por el Dr. Gerardo Méndez P. para revisar el desarrollo total y conducir la evaluación final del proyecto.



El EQUIPO tuvo una serie de discusiones con las autoridades pertinentes del Gobierno de Bolivia, efectuó investigaciones de campo e intercambió opiniones con la parte boliviana sobre puntos de vistas técnicos y administrativos.

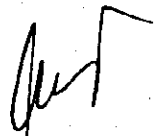
Como resultado de las discusiones, El CEC acordó recomendar a sus respectivos gobiernos los asuntos referidos en los documentos adjuntos a esta minuta.

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Santa Cruz, 16 de Enero de 2001





Dr. Tadashi Matsukawa,
Jefe, Equipo Japonés de Evaluación
Agencia de Cooperación Internacional
del Japón
Japón



Dr. Gerardo Méndez P.
Jefe, Equipo Boliviano de Evaluación
República de Bolivia

**INFORME DE EVALUACIÓN CONJUNTA
DE LA COOPERACIÓN TÉCNICA JAPONESA
PARA EL PROYECTO DE MEJORAMIENTO DEL GANADO BOVINO
DE CARNE EN LA REPUBLICA DE BOLIVIA**

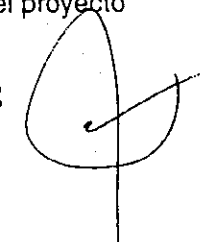

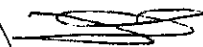
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 - 2-1 Objetivo del proyecto
 - 2.2 Actividades del Proyecto
3. Miembros y cronograma de trabajo del Equipo de Evaluación Conjunta
 - 3.1 Equipo Japonés de Evaluación
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 - 3.2 Equipo Boliviano de Evaluación
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 - 3.3 El cronograma de la evaluación
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5. Evaluación del Proyecto.
 - 5.1 Métodos de Evaluación
 - 5.2 Análisis basado en el criterio de evaluación
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8. Recomendación
9. Lecciones aprendidas del proyecto

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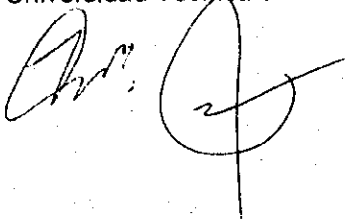
LISTA DE ANEXO

ANEXO 1	Lista de los Miembros del Equipo Japonés de Evaluación
ANEXO 2	Lista de los Miembros del Equipo Boliviano de Evaluación
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LISTA DE ABREVIADOS

CETABOL	Centro Tecnológico Agropecuario en Bolivia
CIABO	Centro de Inseminación Artificial de Bovino
ET	Transferencias Embriones
CEC(JEC)	Comité de Evaluación Conjunta
JICA	La Agencia de Cooperación Internacional del Japón
CTC(JWC)	Comité de Trabajo Conjunto
LIDIVET	Laboratorio de Investigación y Diagnóstico Veterinario
AOD	Asistencia Oficial para el Desarrollo
PDM	Matriz de Diseño de Proyecto
PO	Plan de Operación
R/D	Discusión de Registro
TDIP	Plan Tentativo de Implementación Detallada
TSI	Plan Tentativo de Implementación
UAGRM	Universidad Autónoma Gabriel Rene Moreno
UTB	Universidad Técnica de Beni



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1. Introducción


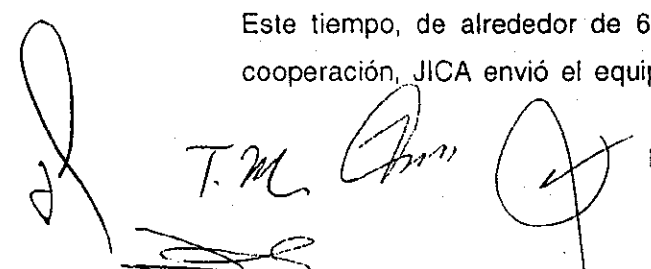
A pesar de que más de 6 millones de cabezas de ganado de carne están siendo criadas en Bolivia, su método de crianza es tradicional y no sistemático. El mejoramiento genético no es un estilo de crianza mayor. Bajo tales circunstancias, el Gobierno de Bolivia colocó una prioridad alta a la elevación de la productividad del ganado de carne a través del mejoramiento de la crianza, por lo tanto, contribuye al mejoramiento y la estabilización para beneficio de los productores. En julio de 1994, el Gobierno de Japón recibió una solicitud oficial del Gobierno de Bolivia para la cooperación técnica a introducir métodos superiores de crianza, reproducción y manejo de alimentación del ganado de carne, y fortalecimiento del sistema de implementación de actividades concernientes.

En noviembre de 1994, JICA envió el equipo de estudio preliminar para realizar la investigación general, posibilidad de implementación y relevancia del proyecto solicitado y para formar el marco del proyecto. Los expertos fueron despachados en junio de 1995 para el estudio detallado del proyecto. Ambos gobiernos firmaron el R/D y el TSI en febrero de 1996, y el proyecto inició un período de 5 años a partir de julio de 1996.

Después de esto, los expertos de largo plazo de JICA (Líder del equipo, coordinador, mejoramiento genético, alimentación y manejo, pastura y forraje, transferencia de embriones) fueron enviados e iniciaron su trabajo en el centro del proyecto. El equipo de asesoramiento fue enviado en agosto de 1997, para formular el TDIP basado en el progreso de las actividades.

En agosto de 1999, el equipo de evaluación del progreso de medio término evaluó el progreso de las actividades e hizo recomendaciones sobre las medidas necesarias a ser tomadas para una adecuada operación del proyecto hasta la conclusión del período de cooperación.

Este tiempo, de alrededor de 6 meses remanentes en el período de cooperación, JICA envió el equipo de estudio de evaluación final para

proponer la evaluación del grado de consecución de los objetivos, identificando problemas y proponiendo las soluciones necesarias, y recomendando cualquier asunto necesario a sus respectivos gobiernos.

2. Esquema del Proyecto

2-1 Objetivo del proyecto

(1) Objetivo Superior

Será mejorada la productividad del ganado bovino, y de esta manera se incrementa el suministro de carne vacuna en la República de Bolivia.

(2) Objetivo del Proyecto

Los métodos generales pertinentes a la crianza, reproducción y manejo de alimentación del ganado bovino, principalmente "Nelore", será mejorada a través de la introducción sistemática de ganadería con genética superior y fortalecimiento del sistema de implementación de las actividades concernientes.

2.2 Actividades del Proyecto

Las siguientes actividades fueron implementadas con el fin de cumplir con los objetivos del punto 2.1.

(1). Transferencia de la tecnología de mejoramiento genético de ganado bovino

(2). Transferencia de métodos efectivos de transferencia de embriones y control de la sanidad reproductiva

(3). Mejoramiento de la técnica del manejo de alimentación del ganado bovino.

(4). Transferencia de la técnica de manejo de pastizal conveniente al medio ambiente de Bolivia.

3. Miembros y cronograma de trabajo del Equipo de Evaluación Conjunta

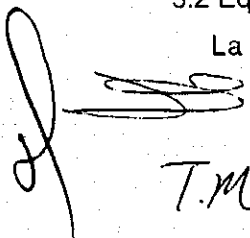
3.1 Equipo Japonés de Evaluación

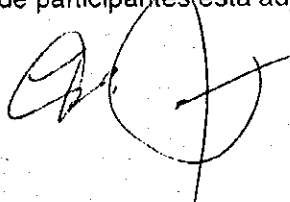
La lista de participantes está adjunta en el Anexo 1.

3.2 Equipo Boliviano de Evaluación

La lista de participantes está adjunta en el Anexo 2.

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3.3 El cronograma de la evaluación

El cronograma está adjunto en el Anexo 3.

4. Objetivos de la Evaluación

Las actividades de evaluación se realizaron con los siguientes objetivos:

- (1) Evaluar el grado de cumplimiento basado en el Plan Tentativa de Implementación Detallada (en adelante se refiere como "TDIP");
- (2) Identificar los problemas de cualquier aspecto acerca de la implementación del Proyecto y proponer las soluciones necesarias, de manera de apoyar su auto subsistencia luego de terminado el periodo de cooperación; y
- (3) Realizar las recomendaciones pertinentes que sean necesarias para la implementación fluida y sucesiva del proyecto, a sus respectivos gobiernos.

5. Evaluación del Proyecto.

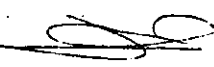
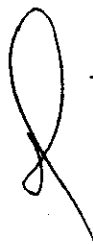
5.1 Métodos de Evaluación

Esta evaluación fue dirigida por el Equipo de Evaluación Conjunta que estaba compuesto por el Equipo de Evaluación Japonesa y el Equipo de Evaluación Boliviana de acuerdo a R/D, Plan de Operación (en adelante se refiere como "PO") y Matriz del Diseño del Proyecto (en adelante se refiere como "PDM"), a través del análisis de los informes, visitas al campo, el estudio de campo, entrevistas y discusiones con el personal del Proyecto basándose en los siguientes cinco componentes de evaluación:

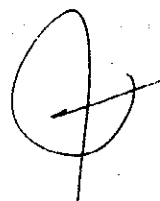
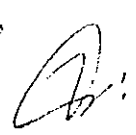
- (1) Eficiencia
- (2) Impacto del Proyecto
- (3) Efectividad
- (4) Pertinencia
- (5) Perspectiva para Sostenibilidad

5.2 Análisis basado en el criterio de evaluación

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El equipo analizó el desempeño del proyecto utilizando los siguientes cinco criterios:

(1) Eficiencia

Eficiencia de la implementación del proyecto fue analizada enfocando en calidad, cantidad, oportunidad de tiempo, utilización de aportes, administración en general de las actividades del proyecto, y otros factores externos que afectaron a la implementación.

(2) Impacto del Proyecto

El impacto del proyecto fue identificado enfocándose principalmente en los impactos positivos y negativos, directos e indirectos, relacionado a objetivo superior del proyecto realizado como la evaluación final del proyecto.

(3) Efectividad

La efectividad de la implementación del proyecto fue determinado, analizado el logro del proyecto.

(4) Relevancia

La validez del propósito del proyecto fue juzgada de acuerdo a las políticas de desarrollo relevantes de la parte boliviana.

(5) Sostenibilidad

La sostenibilidad del proyecto fue pronosticada examinando factores como la utilización de los aportes del proyecto y de las contrapartes bolivianas calificadas, capacidad de administración y los recursos disponibles para las actividades sucesivas del proyecto.

6. Resultados de la Evaluación

6-1 Eficiencia

6-1-1. Aporte de la Parte Japonesa

(1) Despacho de los expertos japoneses

Un total de 11 expertos de largo plazo (jefe del equipo, coordinador, mejoramiento genético, alimentación y manejo, pastos y forraje, transferencia de embriones) y 17 expertos de corto plazo fueron enviados para el proyecto, como está listado en el Anexo 4.

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(2) Aceptación de personal de contraparte en Japón

Un total de 20 contrapartes bolivianas han participado de programas de entrenamiento en el Japón, como está listado en el Anexo 5.

(3) Cargas de los costos locales

El detalle de los costos locales se encuentra en el Anexo 6.

(4) Lista de los equipos suministrados

La lista del equipo suministrado por el Proyecto está en el Anexo 7.

6-1-2. Aporte de la parte Boliviana

(1) Asignación de las contrapartes bolivianas

La lista de contrapartes está en el Anexo 8. El numero de contrapartes fue suficiente.

(2) Asignación de presupuesto

La parte boliviana asignó presupuesto como figura en el Anexo 9.

6-1-3. Evaluación

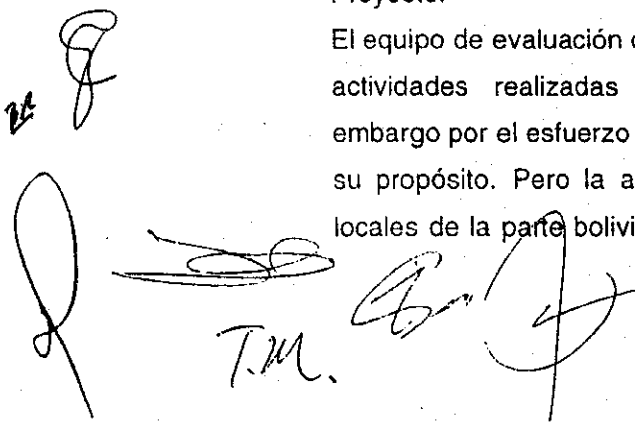
(1) Validez del insumo

Desde que Bolivia definió el mejoramiento de la productividad del ganado de carne y la elevación del beneficio de los productores como sector de alta prioridad, el Proyecto es todavía adecuado a los planes de desarrollo de Bolivia.

La parte japonesa ha implementado su plan pertinentemente en línea con el R/D tal como el despacho de expertos, aceptación de contraparte para entrenamiento y la provisión del equipamiento necesario, tanto como el desembolso de los costos necesarios para la construcción de facilidades y operación en los centros del Proyecto.

El equipo de evaluación de medio término señaló la demora en las actividades realizadas principalmente en el sub-centro, sin embargo por el esfuerzo de ambas partes el Proyecto ha cumplido su propósito. Pero la asignación y desembolso de los costos locales de la parte boliviana en el centro principal se realizaron a

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menudo con demora y en un monto menor al propuesto, y esto frecuentemente bloqueó la fluida operación del Proyecto.

(2) Relación entre el aporte y el resultado

Los aportes asignados por ambos lados formaron resultado deseables.

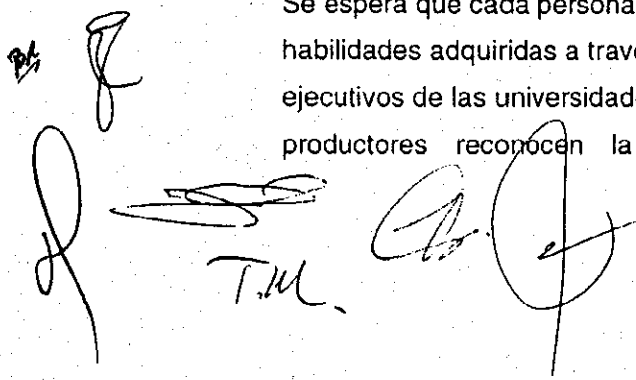
El examen del comportamiento de toros fue conducido 3 veces en el centro principal y 2 veces en el sub-centro. Los resultados fueron destacables, especialmente en el centro principal. Esto demuestra que no solamente el mejoramiento genético pero también que el manejo de la alimentación y el manejo de cultivos de pastura y forraje tuvieron éxito en su progreso. La mayoría de las actividades estuvieron en línea con el PO pero algunas fueron dejadas sin terminar al tiempo de la evaluación. Esto fue debido a que al principio, el Proyecto no pudo manejar la cooperación con muchos criadores (por lo tanto, obteniendo menos ganado que cabeza necesaria) y el Proyecto tuvo que priorizar las facilidades de infraestructuras necesarias antes que iniciar la demostración del manejo eficiente de pasturas.

Pero, para prever las actividades sucesivas, los expertos de JICA y sus contrapartes deberán enfatizar sobre el mejoramiento genético y el manejo de alimentos, desde que ambos campos son necesarios para el examen del comportamiento de toros. Asimismo, desde que habrá una necesidad de asignación de presupuesto y manejo contable, el Proyecto deberá hacer y recomendar a la contraparte un plan para la operación y el desarrollo bajo un plan presupuestario realístico.

6-2 Impacto

(1) Impacto Tecnológico

Se espera que cada personal de contraparte extienda las habilidades adquiridas a través del Proyecto a otros técnicos. Los ejecutivos de las universidades y los afiliados de organizaciones de productores reconocen la importancia y eficiencia sobre el examen



de comportamiento de toros. Se espera que en el futuro los ganaderos preferirán utilizar semen congelado de una raza pura garantizada que tiene el certificado de prueba y eventualmente la producción del ganado Nelore se incrementará por la introducción sistemática de método de mejoramiento, reproducción y manejo de la alimentación.

(2) Impacto Institucional

Cada personal de contraparte pudo obtener los habilidades de manera organizada que entiendan otros aspectos además de sus especialidades y puedan cooperarse entre ellos. El Proyecto viene trabajando sobre cuarentena donde no habrá una idea clara en el mercado de ganado bovino de carne en Bolivia. En el futuro, el método de examen de comportamiento de toros será posiblemente usado como un estándar en toda la extensión de la nación, puesto que el proyecto comprobó esto como mejor vía..

(3) Impacto Económico

El Proyecto desarrolló una granja de demostración, construyendo la infraestructura necesaria como ser laboratorios, cerca electrificada, corrales etc.. De manera que cualquiera puede visitarla y aprender como trabaja esto. Asimismo, produjo sus propias ganancias vendiendo terneros y leche, demostrando la forma de administrar una propiedad ganadera.

El examen de comportamiento de toros tuvo éxito al obtener una aprobación oficial a la mejor producción de carne y de esta manera incrementar el valor de una raza pura de ganado bovino. Esto quizás contribuya a reforzar la competitividad de las organizaciones de productores dentro del mercado de MERCOSUR.

(4) Impacto Social

El Proyecto ocasionalmente anunció sus actividades a través de medios masivos de comunicación. El Proyecto ha enseñado un

nuevo método de crianza intensiva de ganado bovino, que hizo que los ganaderos de cabaña reconsideren el método tradicional de mejoramiento genético. La serie de actividades de relaciones públicas mejoró el entendimiento de la gente boliviana hacia la cooperación técnica japonesa.

(5) Impacto Ambiental

Introduciendo manejo de pastizales intensivos con drenaje, bosques y otras facilidades apropiadamente con uso de no - fertilizantes y lluvias se demostró la posibilidad de producir pastos de alta calidad. La importancia de hacer crecer arboledas a la escala apropiada ha sido entendida. Se espera que esta penetración en el manejo de la producción de pastos a bajos costos prevenga la destrucción ambiental como ser la erosión y lavado del humos del suelo debido al sobre pastoreo y desarrollar la ganadería en forma sostenible.

6-3 Efectividad

(1) Grado de cumplimiento de las actividades del Proyecto

Se reconoció que las actividades de transferencia de tecnología del proyecto casi lograron sus objetivos como resultado del esfuerzo puesto por ambos lados a pesar de algunas demoras en las actividades para la primera parte del período del Proyecto.

(2) Logros mayores de las actividades de Proyecto

a. Mejoramiento Genético de Ganado Bovino de Carne

El establecimiento de sistema de examen de comportamiento de toros es una de las propuestas más importantes del Proyecto, sin embargo esta actividad tiene atraso en el cronograma debido a que esto tomó tiempo para construir la infraestructura, y fue difícil para cooperar con las organizaciones de productores.

Sin embargo, el examen de comportamiento de toros fue implementado en tres oportunidades. Mientras tanto el examen logró gradualmente la atención de las personas concernientes al mejoramiento genético. El examen de comportamiento de toros está mejorando en expectativa.

El comité fue organizado para evaluar el resultado del examen.

El examen fue implementado de dos maneras: prueba solamente con pasto y con alimentación suplementaria concentrada. La tasa de crecimiento fue razonable y se comprobó que puede realizar la prueba solamente con pasto.

Sin embargo, existe algunas actividades incompletas como ser :

Establecimiento de mejor criterio para seleccionar sementales a ser probado, seleccionando sementales candidatos a ser probado, evaluando mejor ambiente para extraer altos potenciales genéticos.

b. Transferencia de embriones (ET) y control de sanidad reproductiva

Podría ser evaluado que la transferencia de tecnología en esta división (colección de embriones, preservación y trasplante) fue implementado apropiadamente en el centro principal. El grado de impregnación fue adecuado en dato del 2000. Mientras, la habilidad de transferencia de embriones estaba retrasada en el sub-centro, debido a la demora en la construcción de las facilidades necesarias en la primera mitad del período de cooperación. El proyecto deberá efectuar examen adicional para el uso práctico de las habilidades de ET.

Para el control de sanidad reproductiva, ambos lados lograron sus objetivos de realizar un manual de sanidad y presentar un sistema de manejo de sanidad.

c. Alimentación y manejo de ganado de carne

Se reconoció que el Proyecto ha obtenido excelentes resultados a través de las siguientes actividades, por lo tanto el Proyecto ha logrado su propósito en su mayoría.

- a) Establecimiento de manejo de pasturas tales como la toma de medidas para el plantación de arboles rompevientos y para sombras con objetivo de prevenir el daño por calor al ganado de carne, utilizar cercas baratas y cercas electrificadas con objeto de mantener el ganado dentro del área

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apropiada de pasturas.

- b) Logro del manejo de alimento para acelerar el crecimiento de novillos.
- c) Establecimiento del manual de manejo regional de alimentos y la ejecución de varios seminarios de manejo de alimentos.

d. Producción de cultivo de pastura y forraje

A pesar de la dificultad de la transferencia de tecnología concerniente con el manejo de cultivos de pastura y forraje debido a la demora en el arreglo del equipo necesario, se reconoció que el Proyecto ha realizado muchas actividades, tales como:

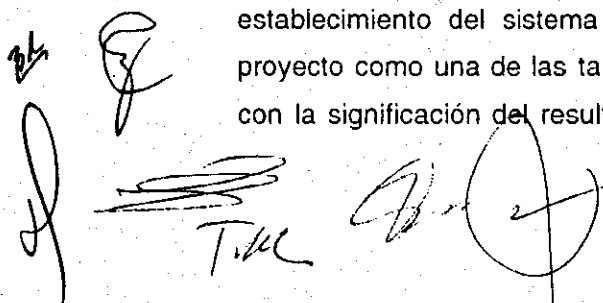
- a) Seleccionar pastura ajustable a través de investigación de las condiciones regionales
- b) Nivelando la pastura por la mecanización en la producción de forraje
- c) Diseñando sistema de drenaje apropiados
- d) Desarrollando equipo simplificado bajo el sistema directo de siembra de pasto
- e) Establecimiento del sistema de manejo de pastura a través del desbroces, eliminación de arbusto y mantenimiento del equipo técnico.

6-4 Relevancia

Las facilidades básicas necesarias para la implementación de las actividades del Proyecto fueron construidas y el equipo necesario fue proveído en el centro principal y en el sub-centro en la primera mitad del período de cooperación. Métodos relevantes para el mejoramiento del ganado de carne han sido transferidos en el proceso. Especialmente, los resultados del examen de comportamientos de toros fue sobresaliente.

El sistema de autosubsistencia después del período del proyecto ha sido parcialmente establecido, que es uno de los propósitos más importantes del Proyecto.

JICA asigna esta cooperación en los campos del desarrollo hortícola y el establecimiento del sistema de generalización de los resultados del proyecto como una de las tareas importantes en Bolivia y esto coincide con la significación del resultado del proyecto. JEC reconoce que este



proyecto fue mayormente exitoso.

6-5. Sostenibilidad

(1) Aspectos organizativos

UAGRM es responsable por el pago de salarios del Director del Proyecto, secretaria, contador, auditor y otro personal de contraparte involucrado. Asimismo, un superintendente a tiempo completo deberá ser elegido para mantener el equipo y maquinaria provista. Deberá ocurrir lo mismo con la UTB, donde esta localizado el sub-centro.

Ambas universidades deberán continuar con el pago al personal mencionado, aun después de que la cooperación haya concluido. Por otro lado, el Proyecto deberá esforzarse para asegurar sus propios ingresos y racionalizarse a través de la reducción. Las universidades, prefecturas, asociaciones de productores deberán compartir los costos para hacer que el Proyecto sea autosostenible.

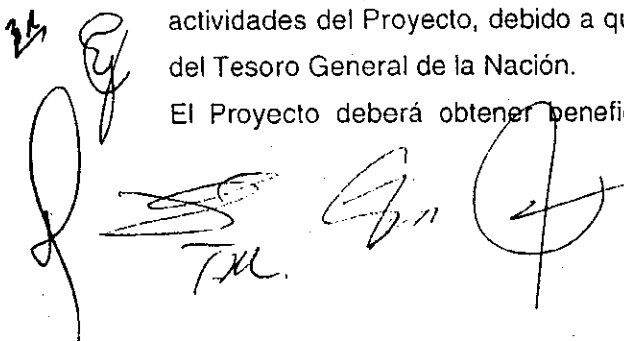
El manejo de personal dentro del Proyecto deberá ser resuelto y aprobado por la autoridad de JWC. Por lo tanto, JWC necesita ser fortalecido en su autoridad y función para mantener la transparencia en las operaciones del Proyecto.

Con objeto de hacer un uso eficiente del limitado presupuesto y personal y modernizar el manejo, el Proyecto podrá ser reorganizado o unificado con CIABO. La organización unificada deberá ser el centro técnico nacional de extensión para el mejoramiento de ganado de carne y leche.

(2) Aspectos financieros

El lado boliviano ha asignado el presupuesto del Proyecto a lo largo del período de cooperación. El Ministerio de Hacienda ha anunciado que asegurará la asignación de sesenta mil dólares americanos para la ejecución de costos locales del Proyecto en la gestión fiscal 2001. Es necesario que las universidades, prefecturas y las asociaciones de productores apoyen las actividades financieramente luego de la gestión 2001, para las sucesivas actividades del Proyecto, debido a que parece que será difícil obtener el apoyo del Tesoro General de la Nación.

El Proyecto deberá obtener beneficio propio por la implementación de las



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siguientes actividades

- a. Venta de leche excedente a las plantas procesadoras de leche.
- b. Venta del excedente de ganado
- c. Venta de ganado puro Nelore producido por ET
- d. Cobro de costos por cursos de entrenamiento
- e. Cobro de costos por la implementación del examen de la performance de toros para los granjeros que así lo deseen.
- f. Establecimiento de un sistema nacional en red de venta de semen congelado sobre la base de órdenes y métodos que serán demostrados por personal entrenado.

(3) Aspectos de personal

El personal de contraparte del proyecto esta constituido básicamente por las facultades de la universidad . Algunos están en calidad de préstamo por las asociaciones de productores. Es deseable que se pueda asignar al personal correcto en el lugar correcto para su campo de especialidad. Se debería proporcionar incentivos para la extensión de la habilidades adquiridas a otros productores. Asimismo, miembros de JWC deberán permanecer y mantener su autoridad para la continuidad de las actividades del proyecto.

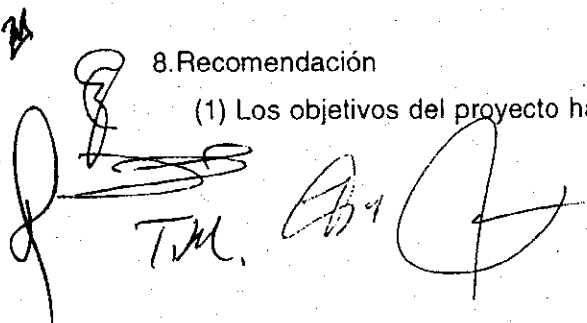
7. Resumen de la Evaluación

El JEC concluyó que las actividades de transferencia de tecnología del proyecto han casi alcanzado sus objetivos como resultado de los esfuerzos realizados por ambos lados, boliviano y japonés en línea con el PO, aunque existen algunas actividades , principalmente aquellos del sub-centro los cuales no fueron completados hasta la evaluación debido a la demora en la preparación y construcción de las facilidades para la primera mitad del período del Proyecto. Los expertos japoneses y el personal de contraparte boliviano deberán realizar esfuerzos para concluir el resto de las actividades y lograr la meta del Proyecto dentro del término de cooperación del Proyecto.

8. Recomendación

- (1) Los objetivos del proyecto han sido casi logrados a través de los cinco

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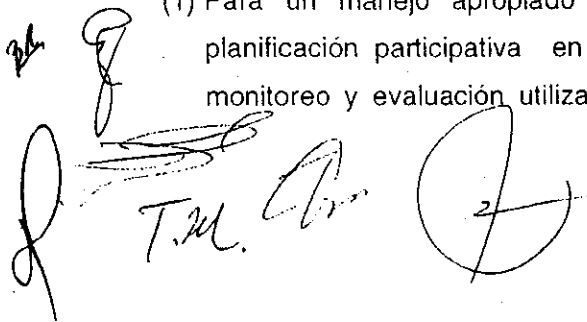
años de cooperación técnica. Se espera que el personal de contraparte boliviano pueda implementar la mayoría de las actividades necesarias para el mejoramiento de carne. Consiguientemente, es adecuado que el proyecto concluya sus actividades a fines del mes de junio, 2001, como estaba programado en el R/D.

- (2) Con objeto de hacer que el proyecto sea autosostenible luego de la conclusión de la cooperación al Proyecto, la parte boliviana debería considerar a cabalidad la asignación de presupuesto, la estructura de la organización, y la asignación de personal adecuado y facilidades para ser completamente efectivo. Por lo tanto, el proyecto podrá ser reorganizado o unificado como un instituto nacional con CIABO.
- (3) Con objeto de continuar logrando lo objetivos del proyecto, el Gobierno del Japón deberá considerar necesariamente medidas para mantener y monitorear las actividades dentro del esquema de la ODA del Japón tales como apoyo a través de envío de expertos. En ese sentido, la parte boliviana deberá informar trimestralmente el progreso concerniente a la autosostenibilidad a la oficina de JICA en Bolivia.
- (4) La colaboración ha sido mantenida entre el proyecto y CETABOL en el campo del mejoramiento genético de ganado de carne y el de producción de cultivos de forraje desde el inicio del proyecto. Se espera que CETABOL mantenga ese relacionamiento con el proyecto.
- (5) El equipo y maquinaria suministrado por JICA en el Proyecto deberá ser mantenido y utilizado apropiadamente para el Proyecto por CTC, que deberá tener responsabilidad para disponer la regulaciones y asignación de personal adecuado para ello.

9. Lecciones aprendidas del proyecto

A través de la evaluación del proyecto, el equipo ha reconocido algunas lecciones que son útiles para los Gobiernos de Bolivia y del Japón, para la planificación e implementación de proyectos en el futuro.



- (1) Para un manejo apropiado del proyecto de cooperación técnica, la planificación participativa en la etapa de planificación del proyecto, el monitoreo y evaluación utilizando el PDM, PO y el Plan de Monitoreo y

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Evaluación preparados en la etapa de formulación del proyecto deberán ser realizados. PDM y PO deberán ser revisado de manera periódica de acuerdo al progreso de las actividades del proyecto.

- (2) Con objeto de conducir las actividades del proyecto más eficientemente es crucial preparar un plan detallado (un plan de 5 años en caso de una cooperación por ese período de tiempo) de equipo a ser suministrados en un período de cooperación planificada sobre la etapa de formulación del proyecto.



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