

Equipment List Requested with Syrian Side Priority

Priority **A: High Priority**
 B: Common Equipment
 C: Low Priority
 D: Delete

Remarks ***: New Items Requested**
 △: Quantity Modified (Increase)
 ▼: Quantity Modified (Decrease)
 **** : Specification Modified**



Equipment List

Name of Department

Name of Section

No	Priority	Equipment Name	Quantity
----	----------	----------------	----------

Anatomy

Anatomy

001	A *	Stainless Steel Basin	8
002	A *	Stainless Steel Table with Caster	16
003	A *	TV set with Video	1
004	A *	Blood Extracting Apparatus from Neck	1
005	A *	Air Blowing Apparatus for Stomack	1
006	A *	Lifter	1
007	A *	Mat for Animals	1
008	A *	Refrigerator	2
009-01	A *	Acupuncture Needle for Cattle	10
009-02	A *	Acupuncture Needle for Small Animals	10
009-03	A *	Electrical Acupuncture Stimulator	2
009-04	A *	Acupuncture Point Detector	2

Embryology

001	A	Egg hatchery, Cap. 50-60 eggs	1
002	A	Egg hatchery, Cap. More than 100 eggs	1
003	A *	Egg Candler	5

Histology

001	B	Double head microscope	1
002	B	Microscope with camera	1
003	B	Tissue Tech	1
004	A	Microtome	1
005	C	Blade Sharpener	1
006	C	Dryer for slides	1
007	A	Microscope	20
008	A	Microscope with TV monitor	1

Hygiene

Fish Disease

1 / 17 page

Name of Department

Name of Section

<i>No</i>	<i>Priority</i>	<i>Equipment Name</i>	<i>Quantity</i>
001	A	Water regulation apparatus	1
002	A	Microscope	10
003	A	Stereoscopic microscope	10
004	A	Video and camera for microscope	1

Meat Hygiene

001	A	Hand pH meter	2
002	A	Meat grinder	1
003	A	Δ Balance, 1000gr	3
004	A	Humidity measurement apparatus	1
005	A	Microscope	10
006	A	Magnetic stirrer with hot plate	1

Milk Hygiene

001	A	Gerber centrifuge with water bath	1
002-01	A	Water bath, 40 degree	1
002-02	A	Water bath, 100 degree	1
003	A	Hot air oven	2
004	A	Δ Automatic pipette	40
005	A	Refrigerator	2
006	A	pH meter	1
007	B	Microscope	10
008	A	* Delvotester	1

Pasture Plant

001-01	A	▼ **	Balance, 200g 0.1mg	3
001-02	A	▼ **	Balance, 100g 0.1g	3
001-03	A	▼ **	Balance, 500g 1mg	3
001-04	A	▼ **	Balance, 1000g 100mg	3
002	B		Usual microscope	10
003	A		Research microscope	1
004	A	**	Centrifuge, 3000rpm	1
005	A	**	Centrifuge, 6000rpm	1
006	A		Blood cell counter	1
007	C		Blood unit counter	1
008	B		Gas chromatograph	1

Pasture and Toxic Plant

001	A		Kjeldhal apparatus	1
-----	---	--	--------------------	---

Name of Department

Name of Section

<i>No</i>	<i>Priority</i>	<i>Equipment Name</i>	<i>Quantity</i>
002	A	Magnetic mixer	2
003	A	Viscometer	1
004	C	Rheometer	1
005	A	Portable toxic checker	3
006	A	Thermogravimetric moisture determination	3
007-01	A ▼	Micropipette, 1000	10
007-02	A ▼	Micro-pipette, 500	10
007-03	A ▼	Micro-pipette, 100	10
007-04	A ▼	Micro-pipette, 50	10
007-05	A ▼	Micro-pipette, 20	10
007-06	A ▼	Micro-pipette, 5	10
007-07	A ▼	Micro-pipette, 1	10
008	A	Water distillation apparatus	1
009	C	Rotary evaporator	1
010	C	Spectrophotometer	1
011	A	Deep freezer	1
012	A Δ	Refrigerator	2
013	B *	Fluid Extraction Apparatus	1
014	A *	Meat Mixer	2
015	A *	pH Meter	2

Internal Medicine & Infectious Disease

Clinic Laboratory

001	A	Research microscope	1
002	A	Re-distilled water apparatus	1
003-01	A Δ	Stainless steel box for autoclave 1 liter	5
003-02	A Δ	Stainless steel box for autoclave 1.9 liter	2
003-03	A Δ	Stainless steel box for autoclave 3.2 liter	2
004	A Δ	Neubauer blood cell counter	10
005	D	Leukocyte counter, hand type (Refractometer)	5
006	C	Blood parameter counter	2
007	C	Centrifuge, 6000rpm (mini size)	1
008	C	Spectrophotometer	1
009	A	Vacutainers tube	2000
010	A	Distilled water apparatus	1
011	B **	Over Head projector	1
012	A	Fluorescence microscope	1

Name of Department

Name of Section

<i>No</i>	<i>Priority</i>	<i>Equipment Name</i>	<i>Quantity</i>
013	B	ELISA system	1

Infectious Disease

001	A	Centrifuge, 4000rpm	2
002	A	Multi channel micro pipetters, 5-50ml	2
003	A	Multi channel micro pipetters, 100-500ml	2
004	A	Single channel micro pipetters, 0.5-10ml	2
005	A	Single channel micro pipetters, 2-10ml	2
006	A	Single channel micro pipetters, 10-100ml	2
007	A	Single channel micro pipetters, 100-1000ml	2
008	A	Shaker, plate	1
009	A	Shaker, tube	1
010	A	Over head projector	1
011	A	Incubator	1
012	A	Refrigerator	1
013	A	** Freezer, -70°C	1
014	A *	Flask 20ml	20
015	A *	Flask 50ml	20
016	A *	Flask 100ml	20
017	A *	Flask 250ml	10
018	A *	Flask 500ml	10
019	A *	Beaker 200ml	10
020	A *	Beaker 500ml	10
021	A *	Petri Dish 30x15	20
022	A *	Petri Dish 45x15	20
023	A *	Petri Dish 60x15	20
024	A *	Petri Dish 75x15	20
025	A *	Petri Dish 90x20	20
026	A *	Petri Dish 94x20	20
027	A *	Test Tube 12x75	200
028	A *	Test Tube 12x90	200
029	A *	Test Tube 12x105	200
030	A *	Test Tube 12x120	200

Internal Medicine

001	A	Stomach tube (for Cattle)	3
002	A	Stomach tube (for Horses)	3
003	A	Stethoscope, Double	5

Name of Department

Name of Section

<i>No</i>	<i>Priority</i>	<i>Equipment Name</i>	<i>Quantity</i>
004	A	Catheter for cattle	5
005	A	Catheter for Horses	10
006	A	Spectrophotometer	1
007	A	Cytometer apparatus	10
008	A	Urometer (Determine specific gravity of urine)	1
009	A	pH meter	1
010	A	Centrifuge, 4000rpm	1
011	A	Hemetocrit apparatus, Centrifuge	1
012	A	Stereoscopic microscope	3
013	A *	Metal Detector	2

Poultry Disease

001	A *	PC Computer	1
002	A *	Slide Projector for Computer	1
003	C *	Slides and Video Films for Poultry Disease	1
004	A *	Sensitivity Test Apparatus	1
005	A *	Antibiotic Disks	5
006	A *	EPC Tube Apparatus	20
007	A *	Mycotoxins Diagnostic Tool	1

Microbiology

Bacteriology

001	A	Autoclave, horizontal	2
002	A	Distilled water apparatus	1
003	B	Fluorescence microscope	1
004	A	Deep freezer, -60°C	1
005	B	Stereoscopic microscope	30
006	A	Digital balance, 1000gr	1
007	C	Digital balance, 500gr	1
008	A	Over head projector	1
009	A	Slide projector	1
010	A	Centrifuge, 6000rpm	1
011	C	Colony counter	2
012	A	Shakers, different size	4
013	C	Incubator for culture, medium size	2
014	A	CO2 Incubator, medium size	1
015	C	Biological safety cabinet	1

Name of Department

Name of Section

No	Priority	Equipment Name	Quantity
016	B	Set of stained smears and slides	1
017	A	Anaerobic chamber	1
018	A ▼	Set of Mcfareland opacity tubes	5
019	A	Mixer for mixing different bacterial and organs salpher fluids	2
020	A	Shaker, Vortex	3
021	A ▼	Water bath, small size	2
022	C	Disinfectant container with cover	8
023-01	A	Micropipette 200-1000	10
023-02	A	Micropipette 2-20	10
024	B ▼	Micropipette, multi heads	2
025	A	Stainless steel box for autoclave	4

Parasitology

001	A	Stereoscopic microscope	10
002	A	Microscope	10
003	A	Multi-head microscope with TV screen	1
004	A	Educational slide for the field of parasitology	1
005	A	Slide projector	1
006	A	Overhead projector	1

Virology

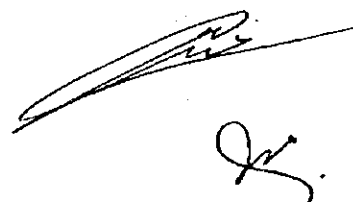
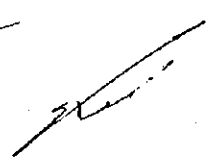

001	A	Ultra micro centrifuge	1
002	A	Gradient prepare apparatus	1
003	A Δ	Inverted microscope for cell culture	3
004	A	Container for liquid nitrogen	1
005	A	Luminar flow, vertical	1
006	A	ELISA reader for micro plate	1
007	A	Egg hatchery	1
008	A	Egg scanning box	1
009	A Δ	Vortex mixer	3
010	A	Shaker	1

Pathology

Pathology

001	A	Histopathology slide heat drier	1
002	A	Medium size incubator for paraffin wax	1
003	A	Double head microscope	1

6 / 17 page



Name of Department

Name of Section

<i>No</i>	<i>Priority</i>	<i>Equipment Name</i>	<i>Quantity</i>
004	A	** Multi head microscope, eight heads	1
005	A	Microscope	30
006	A	Microscope with camera and macro photo system	1
007	A	Autopsy kit for large animals	2
008	A	Sliding microtome	1
009	A *	Camera	1
010	A *	Chain block	1

Physiology

Animal Breeding

001	A	Milking machine	1
002	A	Video film of animal stables and breeds	1

Animal Nutrition

001	A	Magnetic stirrer with heater (max. 50°C)	1
002	B	Calorimeter for energy measurement of feedingstuffs	1
003	B	Equipment for detecting / measurement of Apha Toxin in feedstuffs	1
004	A	Electric balance, cap. 200gr, sensitivity 0.1mg	2
005	A	Dry feed hammed mill (feedstuffs)	1
006	A	Software for feed formulation (Cattle, Sheep, Horses, Poultry)	1
007	C	Starch and sugar (in food / feed) measuring device	1
008	A	Cool water supply device, Cap. 50L/Hr	1
009	A	Moisture measuring device in feed, Infrared type	1
010	A	Dishes used for dryers (for max. temp. 200°C), Aluminum	100
011	A	Porcelain cups to be used in ovens, temp. over 600°C)	100
012	A	Titration unit for Kjeldhal method (Automatic)	1
013	A	Safety helmet / protection for head and face	10
014	B	Filtration unit	1
015	D	Automatic Burette set	1
016	A *	Heating Mantle, 400W 1liter	4
017	A *	Soxhlet Glass 500ml	6
018	A *	Flask 150ml	20
019	A *	Beaker 1000ml	10
020	A *	Flask 1000ml short neck	10
021	A *	Metal Bag Container for Stomack	1
022	A *	Glass Filter 450ml	15
023-01	A *	Beaker with Beaker Holder 500ml	5

7 / 17 page

Name of Department

Name of Section

No	Priority	Equipment Name	Quantity
023-02	A *	Beaker with Beaker Holder 1000ml	5
024	A *	Extraction	10

Bio-Chemistry

001	A *	Water Distillation Apparatus	1
002	A *	Centrifuge, 8000rpm	4
003	A *	Homogeneous Apparatus with Ice Bound	1
004	A *	Thermostat	1
005-01	A *	Balance 500g, 0.5g	1
005-02	A *	Balance 200g, 0.05g	1
006	C *	Sage Syringe Pump	1
007-01	A *	Micro-pipette, 5-50	1
007-02	A *	Micro-pipette, 10-100	1
007-03	A *	Micro-pipette, 50-500	1
007-04	A *	Micro-pipette, 500	1
007-05	A *	Micro-pipette, 1000	1
007-06	A *	Micro-pipette, 100-1000	1
008	A *	Spectrophotometer	5
009	B *	Spectrophotometer for Research	1
010	B *	Fluorescence Spectrophotometer	1
011	B *	Atomic Absorption Spectrophotometer	1
012	B *	Tube Chromatographic Apparatus	1
013	A *	pH Meter	1
014	A *	Laboratory Electric Stove	16
015	C *	Laboratory Sample Mill	1
016	A *	Deep Freezer	1
017	A *	Central Dispersion Apparatus	1
018	A *	Laboratory Table, 1800x1200mm	11

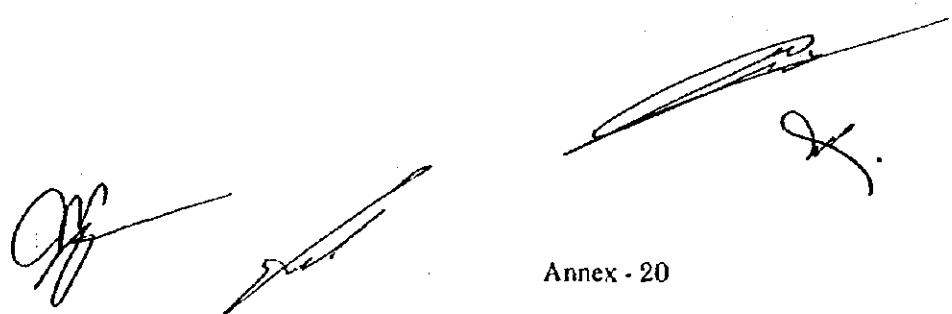
Botany

001	A	Δ	Microscope	40
002	A *		Lamina Flow	1
003	A *		Re-Distilled Water	1
004	A *		Incubator	1
005	A *		Magnetic Stirrer	1
006	A *		pH Meter	1

Genetics

001	A		PC Computer	2
-----	---	--	-------------	---

8 / 17 page



Name of Department

Name of Section

<i>No</i>	<i>Priority</i>	<i>Equipment Name</i>	<i>Quantity</i>
-----------	-----------------	-----------------------	-----------------

002	A	Research microscope	1
-----	---	---------------------	---

Informatics

001	A *	Data Show	1
002	A *	Laser Printer A3	1
003	A *	Laser Printer A4	1
004	A *	PC Computer	6
005	A *	Scanner	2
006	A *	UPS	6
007	B *	Portable Screen for Computer	1
008	A *	CD-ROM Writer	2

Pathophysiology

001	A	Microscope	15
002	A	Microscope with camera and TV monitor	1
003	A	Centrifuge, 6000rpm, 8 - 12tubes	1
004	A	Endoscope with TV monitor and video camera	1
005	A	Electric balance	1
006	A	Anatomy instrument kit	10
007	A	Water bath	1
008	A	Video film / educational pathio physiology	1
009	A *	Pump for Stomack Fluid	1

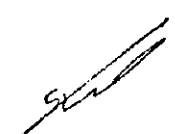

Pharmacology

001	A	Δ	Kymograph with recording transducer	4
002	A		Centrifuge, 4000rpm	1
003	A		Autoclave	1
004	A *		Balance 500g, 1mg	4

Physiology

001	A		Binocular Microscope	30
002	A		Kymograph with stimulator	20
003	A		Centrifuge, 6000rpm, 8 - 12tubes	1
004	B		Microscope with camera and TV monitor	1
005	A		Centrifuge for ependrof tube (micro 8-10tubes)	1
006	A		Isolated tissue bath	1
007	A		Micro ELISA	1
008	A		Digital oscillometer for blood pressure	8
009	A		Water distillation apparatus	1

9 / 17 page



Name of Department

Name of Section

<i>No</i>	<i>Priority</i>	<i>Equipment Name</i>	<i>Quantity</i>
010	A	Spectrophotometer	1
011	D	Electric illustration for body system	1
012	A	PC Computer	1
013	B	Automatic blood cell counter for veterinary use	1

Poultry Breeding

001	A	Egg Hatchery / Incubator	1
002	A	Laying cage batteries (Broiler and egg laying)	3
003	A	Micrometer for measuring height of yolk and albumin	5
004	A	Micrometer for egg shape measuring	5
005	A	Micrometer for measuring the depth of air room in an egg	5
006	A	Micrometer for measuring thickness of egg shell	5
007	A	Interior quality calculation for measuring Haugh unit in eggs	5
008	A	Refractometer for egg for measuring density of egg shell	5

Zoology

001	A	Microscope	30
002	A	Stereoscopic microscope with camera	1
003	A	Stereoscopic microscope with monitor and camera	1
004	A	Electric balance	1
005	A	Microtome	1

Surgery & Gynecology

Gynecology

001	A	Autoclave, small size	2
002	A	Laparoscopy, for small animals	1
003	A	Laparoscopy, for large animals	1
004	A	Some medium	1
005	A	Ingredients for preparation medium	1
006	A	Hormone extractor	1
007	A	Hormone analyzer	1
008	A	Microtome	1
009	A	Video camera and monitor	1

Surgery

001	A	X-ray device for animals	1
002	A	Endoscopy apparatus	1

Name of Department

Name of Section

No	Priority	Equipment Name	Quantity
003	A	Ultrasound diagnostic camera for animal	1
004	A	Video camera and monitor	1

Research Laboratory

Research Laboratory

001	A	Autoclave, horizontal, middle size	1
002	C	Autoclave, vertical, small size	1
003	C	Autoclave, vertical, middle size w/drying function.	1
004	A	Autoclave, vertical, large size w/drying function	1
005	A	Automatic washing machine for glass wares w/each type basket and	1
006	A	Electronic balance, top loading, -300g/1mg	1
007	C	Electronic balance, top loading, -2000g/10mg	1
008	A	Electronic balance, analytical, -200g/0.1mg w/stage	1
009	C	Electronic balance, top loading, 200g/40g; 0.1mg/0.01mg w/stage	1
010	A	Scale, 4kg/10g	1
011	A	Scale, 8kg/20g	1
012	C	Dry air sterilizer, small size (90L)	1
013	A	Dry air sterilizer, large size (160L)	1
014	C	Constant temperature circulator water bath	1
015	C	Stainless steel bath, 400x300x150mm for above	1
016	A	Water bath, room tem. -80c, 290x400x275mm	1
017	A	Water bath incubator (w/shaking device) 800x400x340 mm	1
018	A	Constant temperature water bath, w/window w/lid a rack	1
019	A	Handycooler for water bath, 20 - 30c TRL-	1
020	A	Ice machine, (flake-type ice)	1
021	A	pH meter, w/standard solution set	1
022	A	Automatic distiller w/softener, deionizer system 4L/H, w/renewal de	1
023	C	Automatic distiller w/softener, deionizer 2L/H	1
024	A	System for bi-distilled water production for tissue culture	1
025	C	High speed, refrigerated centrifuge w/angle rotors, swing rotor and r	1
026	A	High speed, refrigerated micro-centrifuge 1.5ml x 20-30 tubes, 1200	1
027	A	Electro-phoresis system w/electronic supplier w/instant camera 2 t	1
027-01	A	1) Polyacrylamide gel	1
027-02	A	2) Agar gel	1
027-03	A	3) Acetate film	1
027-04	A	4) Western blotting system	1
027-05	A	5) Southern blotting system	1

11 / 17 page

Name of Department

Name of Section

No	Priority	Equipment Name	Quantity
028	A ▼	Spectrophotometer, double-beam: w/Pyrex cell 10mm	2
029	A	Spectrophotometer, crystal cell 10mm	4
030	A ▼	Spectrophotometer, single beam: w/tubes	4
031	A	LN2 - cell preserver, 60-80 L w/cryo boxes, and canes	1
032	A	LN2 container -40L	1
033	A	Ultra-sonic cleaner, 10L w/timer and heater w/basket	1
034	A	Ultra-sonic pipette washer w/spare basket	1
035	A	Pipette washer-siphon type, (washer, basket tanks) w/one spare ba	2
036	A	Stirrer, magnetic, 50ml - 2L	1
037	C	Stirrer magnetic 100 ml-10L	2
038	C	High power, slow stirrer w/stand	1
039	A	Ultra-sonic homogenizer for cells	1
040	A	Motor-driven Homogenizer	1
040-01	A	Motor-driving homogenizer, 1ML x 3	1
040-02	C	Motor-driving homogenizer, 2-3 ML x 3	1
040-03	A	Motor-driving homogenizer, 5 ML x 3	1
040-04	C	Motor-driving homogenizer, 10 ML x 3	1
040-05	C	Motor-driving homogenizer, 30 ML x 3	1
041	A	Hot plate	1
042	C	Hot plate stirrer	2
043	A	Cool plate (0-80 c)	1
044	A	Hotting bath -95 c, round w/stand	1
045	A	Ultra-deep freezer 90L, 85 c w/stokers	1
046	A	Ultra-deep freezer 160L, 85c w/stokers	1
047	C	Medical deep freezer 35 c 400L	2
048	A	Fluorescent microscope, tri-ocular "epi-type" (and/+ transmission)	1
049	A	Inverted fluorescent microscope for micro-plate, tri-ocular	1
050	A	Elisa reader system	1
051	C	Biological microscope w/plan. Apo lens series	1
052	C	Biological microscope w/micro photography system w/plan apo lens,	1
053	A	Macro-photography system	1
054	A	Stereo-microscope w/photography set w/indirect/direct illumination	1
055	A	Process Homogenizer	1
055-01	A	Process homogenizer cup and cutter set: 30-100ML (ph91-2)	6
055-02	A	Process homogenizer bath/cup holder	1
055-03	C	Process homogenizer cup and cutter set: 100-500 ML (ph91-4)	1
055-04	C	Process homogenizer bath/cup holder	1
055-05	C	Process homogenizer cup and cutter set: 5-30 ML (ph91-1)	2

12 / 17 page

Name of Department

Name of Section

No	Priority	Equipment Name	Quantity
055-06	C	Process homogenizer bath/cup holder	1
056	A	Micro tites system w/plate shaker (2 or 4 plates), plate-washer mirr	2
056-01	A	Micro tites system, spare dilator: 25 ML	3
056-02	A	Micro tites system, spare dropper: 25 ML	4
057	A	Cool cabinet for column-chromatography w/supporting system	1
058	A	Fraction collector system w/monitor w/glass columns for gel filtrati	1
059	A	Cork borer, electric	1
060	A	Blood cell counter, RBC, WBC, HT, etc..	1
061	C	Electric drying cabinet (desiccator, 120L)	1
062	C	Desiccator, plastic, w/cock, plate, 28 cm f	3
063	C	Desicator, plastic, auto-type	2
064	A	Shaker, low speed	1
065	C	Orbital shaker	1
066	A	Mixer	2
067	C	Bench top shaker	1
068	A	Micro-dispenser w/1 pack of each size spring	3
069	A	Multi-channel micro-dispenser, 8-ch w/1 pack of each size springe	4
070-01	A	Micro-pipette, 0.1 - 2.0 ML	2
070-02	A	Micro-pipette, 2 - 2.0 ML	6
070-03	A	Micro-pipette, 20 - 200 ML	6
070-04	A	Micro-pipette, 200 - 1000 ML	3
070-05	A	Micro-pipette, 1000 - 5000 ML	2
070-06	A	Micro-pipette, with each size pipette tips	2
071-01	A	Pipette sterilizing container, 65 x 80 x 250 mm	20
071-02	A	Pipette sterilizing container, 65 x 80 x 300 mm	20
071-03	A	Pipette sterilizing container, 65 x 80 x 450 mm	30
071-04	A	Pipette sterilizing container, 65 x 80 x 480 mm	6
072-01	A	Culture dish sterilizing container, 100 x 200 x 100 mm	20
072-02	A	Culture dish sterilizing container, 240 x 240 x 200 mm	20
073	A	Compressor (diaphragm type)	1
074	A	Vacuum pump (diaphragm type)	1
075-01	A	Test tube basket, 200 x 200 x 200 mm	10
075-02	A	Test tube basket, 100 x 100 x 100 mm	10
075-03	A	Test tube basket, 300 x 300 x 300 mm	6
075-04	A	Test tube basket, 150 x 150 x 150 mm	10
075-05	A	Test tube basket, 400 x 400 x 300 mm	6
076-01	A	Test tube basket, 100 x 100	6
076-02	A	Test tube basket 150 x 150	10

13 / 17 page

Name of Department

Name of Section

<i>No</i>	<i>Priority</i>	<i>Equipment Name</i>	<i>Quantity</i>
076-03	A	Test tube basket 250 x 250	6
076-04	A	Test tube basket 400 x 300	6
077	A	Washing Basket	1
077-01	A	Washing basket, small	10
077-02	A	Washing basket, large	10
078	A	Drying rack for glass wares: wall-type	2
079	A	Drying shelf w/curtain	1
080	A	Drying shelf w/out curtain	1
081	A	▼ Labo-cart	1
082	A	Vibrating slide-glass washer, for IFA test	1
083	A	▼ Gas burner, tekra type	1
084	A	▼ Gas burner, Bunsen, strong-flame	1
085	A	Gas burner for glass-handicraft	1
086-01	A	Labo-jack, 18 x 180, height: 75 - 240 mm	1
086-02	A	Labo-jack, 100 x 100, height: 55 - 140 mm	1
087	A	Racks for test tubes various sizes	1
088-01	A	Mouse cage, small for experiment	40
088-02	A	Mouse cage, large for maintenance	20
088-03	A	Rat cage	20
088-04	A	Rabbit cage	10
088-05	A	Chicken cage for experiment	10
089	A	Safety pipetter, (pi-pump), 0.2-25 ML	2
090	A	Pipette controller w/spare membrane 3 pcs, rubber bulb	2
091	A	Pipette cage w/6 drawers	4
092	A	Auto-voltage regulator, 100 V, 50KV (input 220 V), single phase	1
093	A	Auto voltage regulator, 200 V, 50 KV (input 220V), single phase	1
094	A	Auto-voltage regulator, 10-100 V, 10A	1
095	A	Personal computer w/printer	3
096	A	Glass wares for labo	1
097	A	Plastic wares	1
098	A	Special chemicals for diagnostic activities	1
099	A	Liquid chromatography, HPLC, system	1
100	A	Gas chromatography-mass spectrophotometer	1
101	A	4WD wagon or one box car for filled survey in desert and mountain a	2
102-01	D	Glass wares & plastic wares	1
102-02	D	Plastic Wares	1
103	A	Hematocrit centrifuge w/reader plate	1
104	A	▼ Refractometer for protein	1

14 / 17 page

Name of Department

Name of Section

<i>No</i>	<i>Priority</i>	<i>Equipment Name</i>	<i>Quantity</i>
105	A ▼	Dissecting instrument set type 1	1
106	A	Thermostat set for bacterial contamination check of milk	1
107	A	Rapid agglutination tester for pullorum in chicken w/spare agglutinati	1
108	A	Medical refrigerator -400L-	2
109-01	A	Balance for small animals 5kg	1
109-02	A	Balance for medium size animals 200kg	1

Research Laboratory, Bacteriology

001	C	Autoclave, vertical, medium size w/spare baskets	1
002	A	Electronic balance, top loading, 1500-2000g/10mg	1
003	A	Scale, 2kg/5g	1
004	A	Table centrifuge 6000RPM w/balance	1
005	A	Personal centrifuge for micro-tubes w/timer, 1.5ML x 6 tubes	1
006	A	Photoelectric colorimeter	1
007	A	pH meter, portable, w/standard solutions	1
008	A	Turbidity meter	1
009	C	Hot plate stirrer	1
010	A	Magnetic stirrer 5L	1
011	A	Table top-type clean bench, class 100	1
012	A	Bio-clean bench (w/ 1,360 x 605 mm), w/vacuum system pump, spa	1
013	C	Incubator, ordinal, 2-chamber (90L x 2) vertical	1
014	A	Low temperature incubator, 0-40c, 120L	1
015	A	CO2 incubator, air jacket, 80L w/stand w/CO2-regulator, 2 CO2 co	1
016	A	Anaerobic culture chamber w/gas - packs	3
017	A	Vacuum/compressor pump, non-oil, small	1
018	A	Desiccator, w/drying unit	1
019	A	Stereoscopic microscope	1

Research Laboratory, Parasitology

001	A	Biological Microscope	2
002	A	Stereo Microscope	2
003	A	Magnifier, w/ illumination stand	2
004	C	Table centrifuge - 6,000 RPM w/balance	1
005	A	Mc Master's Egg counter	30
006	A	Drain siphon for liverfluke examination	20
007	A	Rotator for glass beads method of liverfluke eggs, automatic	1
008	A	Stainless net for glass beads method	10
009	A	pH meter, portable, w/standard solution	1

15 / 17 page

Name of Department

Name of Section

<i>No</i>	<i>Priority</i>	<i>Equipment Name</i>	<i>Quantity</i>
010	A	Balance, 100g/0.1g, w/weight set.	1
011	C	Electronic balance, - 2,000 g/10 mg	1
012	A	Hot plate stirrer, - 5L	1
013	A	Multi-stirrer (4 or 6 positions) individual control	1
014	C	Incubator, ordinal, - 100 L	1
015-01	A	Gel puncher for agar gel: 7-well type f 3mm	2
015-02	A	Gel puncher for agar gel: 7-well type f 5mm	2
015-03	A	Gel puncher for agar gel: 7-well type center 5mm, f 3mm	2
016-01	A	Micro -pipette 2 - 20 ml	1
016-02	A	Micro -pipette 20 - 200 ml	2
016-03	A	Micro -pipette 100 - 1,000 ml	1
016-04	A	Micro -pipette 1,000 - 5,000 ml	1
017	A	Gas burner, Bunsen	2
018	A	Alcohol burner, glass, large	10
019-01	A	Alcohol burner, stainless: single loop	3
019-02	A	Alcohol burner, double loop	3
020-01	A	Mortar and pestle, porcelain f 60 mm	20
020-02	A	Mortar and pestle, porcelain f 90 mm	30
020-03	A	Mortar and pestle, porcelain f 150 mm	10
021	A	Refrigerator - 400 L -	1

Research Laboratory, Virology

001-01	A	Filtration system w/5L - pressure tank, oil-less compressor,	1
001-02	A	Filtration system w/10L - pressure tank, f 90 mm filter holder	1
002	A	Lamina flow w/spare HEPA Filter 3 pcs, w/gas burner, electronic va	1
003-01	A	Disc filter holder f 13 mm w/0.22, 0.45 filter and pre-filter	6
003-02	A	Disc filter holder f 25 mm w/0.22, 0.45 filter and pre-filter	6
003-03	A	Disc filter holder f 47 mm w/0.22, 0.45 filter and pre-filter	6
004	A	Dialysis system	1
005	A	CO2 incubator, 2 chambers, water-tacket (120-160Lx2) w/CO2 reg	1
006	A	Roller culture system	1
007	A	Automatic pipette/pipette aid	2
008	C	Ordinal incubator, 2 chambers (90L - x 2)	1
009	C	Autoclave medium size w/spare baskets	1
010	A	Hatchery, 60-100 eggs w/egg chandler 3 pcs	1
011	A	Centrifuge, refrigerated, table top -6,000 PM w/balance	1
012	A	Personal centrifuge, 1.5 ML x 6 tubes	1
013	A	Inverted microscope w/phase contrast, tri-ocular	1

16 / 17 page

Name of Department


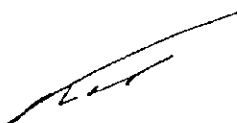
Name of Section

<i>No</i>	<i>Priority</i>	<i>Equipment Name</i>	<i>Quantity</i>
014	C	Inverted microscope, ordinal	1
015	A	Vortex mixer	1
016	A	pH meter, portable w/standard sol. PH4,7,10	1
017-01	A	Multi-channel micro-pipette: 5 - 50 ML 12-ch	1
017-02	A	Multi-channel micro-pipette: 50 - 1000 ML 12-ch	1
018	A	Labo-cart	1
019	A	Gas burner, Bunsen	2
020-01	A	Micro-pipette: 2 - 20 ML	2
020-02	A	Micro-pipette: 20 - 200 ML	2
020-03	A	Micro-pipette: 200 - 1000 ML	1
021	A	Dispenser	2
022	C	Water bath w/shaker	1
023	A	Magnetic stirrer, 5L, low speed	2
024	A	Hot plate stirrer, 90 c, low speed	1
025	A	Culturing bottle, bearer, glass wares	1
026	A	Culturing bottle, plastic wares	1
027	A	Culture medium, calf serum and chemicals for tissue culture	1
028	A	Micro-ultracentrifuge	1

Faculty of Veterinary Medicine

Faculty of Veterinary Medicine

001	A	*	Bus for student field survey	2
002	A	*	Computer	7

Japan's Grant Aid Scheme

1. Grant Aid Procedures

1) Japan's Grant Aid Program is executed through the following procedures.

Application	(Request made by a recipient country)
Study	(Basic Design Study conducted by JICA)
Appraisal & Approval	(Appraisal by the Government of Japan and Approval by Cabinet)
Determination of Implementation	(The Notes exchanged between the Governments of Japan and the recipient country)

2) Firstly, the application or request for a Grant Aid project submitted by a recipient country is examined by the Government of Japan (the Ministry of Foreign Affairs) to determine whether or not it is eligible for Grant Aid. If the request is deemed appropriate, the Government of Japan assigns JICA (Japan International Cooperation Agency) to conduct a study on the request.

Secondly, JICA conducts the study (Basic Design Study), using (a) Japanese consulting firm(s).

Thirdly, the Government of Japan appraises the project to see whether or not it is suitable for Japan's Grant Aid Program, based on the Basic Design Study report prepared by JICA, and the results are then submitted to the Cabinet for approval.

Fourthly, the project, once approved by the Cabinet, becomes official with the Exchange of Notes signed by the Governments of Japan and the recipient country.

Finally, for the implementation of the project, JICA assists the recipient country in such matters as preparing tenders, contracts and so on.





2. Basic Design Study

1) Contents of the Study

The aim of the Basic Design Study (hereafter referred to as "the Study"), conducted by JICA on a requested project (hereafter referred to as "the Project") is to provide a basic document necessary for the appraisal of the Project by the Japanese Government. The contents of the Study are as follows:



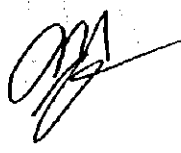

- a) Confirmation of the background, objectives, and benefits of the requested Project and also institutional capacity of agencies concerned of the recipient country necessary for the Project's implementation.
- b) Evaluation of the appropriateness of the Project to be implemented under the Grant Aid Scheme from a technical, social and economic point of view.
- c) Confirmation of items agreed on by both parties concerning the basic concept of the Project.
- d) Preparation of a basic design of the Project
- e) Estimation of the costs of the Project

The contents of the original request are not necessarily approved in their initial form as the contents of the Grant Aid Project. The Basic Design of the Project is confirmed considering the guidelines of Japan's Grant Aid Scheme.

The Government of Japan requests the Government of the recipient country to take whatever measures are necessary to ensure its self-reliance in the implementation of the Project. Such measures must be guaranteed even though they may fall outside of jurisdiction of the organization in the recipient country actually implementing the Project. Therefore, the implementation of the Project is confirmed by all relevant organizations in the recipient country through the Minutes of Discussions.

2) Selection of Consultants

For the smooth implementation of the Study, JICA uses (a) registered consultant firm(s). JICA selects (a) firms(s) based on proposals submitted by interested firms. The firm(s) selected carry (ies) out the Basic Design Study and write(s) a report, based upon terms of reference set by JICA. The consulting firm(s) used for the Study which is (are) recommended by JICA to the recipient country to also work on the Project's implementation after the Exchange of Notes, in order to maintain technical consistency.

3. Japan's Grant Aid Scheme

1) What is Grant Aid ?

The Grant Aid Program provides a recipient country with non-reimbursable funds needed to procure the facilities, equipment and services (engineering services and transportation of the products, etc.) for economic and social development of the country under the principles in accordance with the relevant laws and regulations of Japan. Grant Aid is not supplied through the donation of materials as such.

2) Exchange of Notes (E/N)

Japan's Grant Aid is extended in accordance with the Notes exchanged by the two Governments concerned, in which the objectives of the Project, period of execution, conditions and amount of the Grant Aid, etc., are confirmed.

3) "The period of the Grant Aid" means the one fiscal year in which the Cabinet approves the Project for. Within the fiscal year, all procedure such as exchanging of the Notes, concluding contracts with (a) consultant firm(s) and (a) contractor(s) and final payment to them must be completed. However in case of delays in delivery, installation or construction due to unforeseen factors such as weather, the period of the Grant Aid can be further extended for a maximum of one fiscal year at most by mutual agreement between the two Governments.

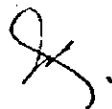
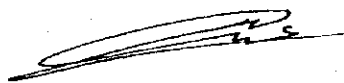


4) Under the Grant Aid, in principle, Japanese products and services including transport or those of the recipient country are to be purchased.

When the two Governments deem it necessary, the Grant Aid may be used for the purchase of the products or services of a third country.

However the prime contractors, namely, consulting contracting and procurement firms, are limited to "Japanese nationals". (The term "Japanese nationals" means persons of Japanese nationality or Japanese corporations controlled by persons of Japanese nationality.)

5) Necessity of "Verification"

The Government of recipient country or its designated authority will conclude contracts denominated in Japanese yen with Japanese nationals. Those contracts shall be verified by the Government of Japan. This "Verification" is deemed necessary to secure accountability to Japanese taxpayers.



6) Undertakings required of the Government of recipient country

In the implementation of the Grant Aid Project, the recipient country is required to undertake such necessary measures as the following:

- (1) To secure land necessary for the sites of the Project and to clear, level and reclaim the land prior to commencement of the construction.
- (2) To provide facilities of the distribution of electricity, water supply and drainage and other incidental facilities in and around the sites.
- (3) To secure buildings prior to the procurement in case the installation of the equipment.
- (4) To ensure all the expenses and prompt execution for unloading, customs clearance at the port of disembarkation and internal transportation of the products purchased under the Grant Aid.
- (5) To exempt Japanese nationals from customs duties, internal taxes and other fiscal levies which will be imposed in the recipient country with respect to the supply of the products and services under the Verified Contracts.
- (6) To accord Japanese nationals whose services may be required in connection with the supply of the products and services under the Verified contracts, such facilities as may be necessary for their entry into the recipient country and stay therein for the performance of their work.
- (7) "Proper Use"

The recipient country is required to maintain and use the facilities constructed and the equipment purchased under the Grant Aid properly and effectively and to assign the necessary staff for operation and maintenance of them as well as to bear all the expenses other than those covered by the Grant Aid.

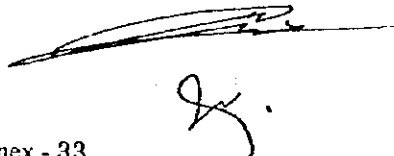
(8) "Re-export"

The products purchased under the Grant Aid shall not be re-exported from the recipient country.

(9) Banking Arrangements (B/A)

a) The Government of the recipient country or its designated authority should open an account in the name of the Government of the recipient country in an authorized foreign exchange bank in Japan (hereinafter referred to as "the Bank"). The Government of Japan will execute the Grant Aid by making payments in Japanese yen to cover the obligations incurred by the Government of the recipient country or its designated authority under the Verified Contracts.

b) The payments will be made when payment requests are presented by the Bank to the Government of Japan under an authorization to pay issued by the Government of the recipient country or its designated authority.



Necessary measures to be taken by the Government of Syria

The following necessary measures should be taken by the Government of the Syrian Arab Republic on condition that the Grant Aid by the Government of Japan is extended to the Project:

1. To provide data and information necessary for the Project;
2. To bear commissions to the Japanese foreign exchange bank for its banking services based upon the Banking Arrangement, namely the advising commission of the "Authorization to Pay" and payment commissions;
3. To ensure prompt unloading and customs clearance at ports of disembarkation in the Government of the Syrian Arab Republic and prompt internal transportation therein of the materials and equipment for the Project purchases under the Grant Aid;
4. To exempt Japanese juridical and physical nationals engaged in the Project from customs duties, internal taxes and other fiscal levies which may be imposed in Syria with respect to the supply of the products and services under the Verified contracts;
5. To accord Japanese nationals whose services may be required in connection with the supply of the products and services under the Verified Contract such facilities as may be necessary for their entry into Syria and stay therein for the performance of their work;
6. To provide necessary permissions, licenses and other authorizations for implementing the Project, if necessary;
7. To provide necessary utilities, such as primary side of electricity and water supply for the Project;
8. To maintain and use properly and effectively the equipment provided under the Project;
9. To coordinate and solve any issues related to the project which may be raised from third parties in the Project area during implementation of the Project;
10. To bear all the expenses, other than those covered by Japan's Grant Aid, necessary for the execution of the Project; and
11. To secure the safety of Japanese national engaged in the Project and to provide tight security against riot, insurrection, civil commotion, rebelling and usurped power.

MINUTES OF DISCUSSIONS
ON
BASIC DESIGN STUDY
ON
THE PROJECT FOR DEVELOPMENT AND IMPROVEMENT
OF
THE FACULTY OF VETERINARY MEDICINE OF AL BAATH UNIVERSITY
IN
THE SYRIAN ARAB REPUBLIC
(EXPLANATION ON DRAFT REPORT)

In April 1999, the Japan International Cooperation Agency (hereinafter referred to as "JICA") dispatched a Basic Design Study Team on the Project for Development and Improvement of the Faculty of Veterinary Medicine of Al Baath University (hereinafter referred to as "the Project") to Syrian Arab Republic (hereinafter referred to as "Syria"), and through discussions, field survey, and technical examination of the results in Japan, JICA prepared a draft report of the study.

In order to explain and to consult Syria on the components of the draft report, JICA sent to Syria the Draft Report Explanation Team (hereinafter referred to as "the Team"), which is headed by Mr. Masaharu Kanameda, Development Specialist, Institute for International Cooperation, JICA, from July 24 to July 31, 1999.

As a result of discussions, both parties confirmed the main items described on the attached sheets.

Homs, July 27, 1999

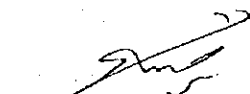


Mr. Masaharu Kanameda
Leader
Draft Report Explanation Team
Japan International Cooperation Agency
(Japan)


Prof. Dr. Abdul Majid Sheikh Hussein
President
Al Baath University
(Syria)



Witnessed by:



Eng. Nabil Rifai
Director of International Organizations
Ministry of Higher Education
(Syria)



Mr. Bassam Al-Sibai
Director, Technical and Scientific Cooperation
State Planning Commission
(Syria)

ATTACHMENT

1. Components of the Draft Report

The Government of Syria agreed and accepted in principal the components of the draft report explained by the Team.

2. Japan's Grant Aid Scheme

The Syrian side understands the Japan's Grant Aid Scheme and the necessary measures to be taken by the Government of Syria as explained by the Team and described in Annex-4 and Annex-5 of the Minutes of Discussion signed by both parties on April 16, 1999.

3. Schedule of the Study

3-1. JICA will complete the final report in accordance with the confirmed items and send it to the Government of Syria by the end of November 1999.

3-2. The consultants will proceed to further survey for specification in Syria until August 5.

4. Other relevant issues

4-1. The Team reconfirmed that the Syrian side should establish the appropriate implementation system including the necessary budget and staffing for the operation and maintenance of laboratory equipment provided by this Project.

4-2. The Team reconfirmed that the Syrian side shall take the following necessary measures by the time of the commencement of this Project:

a) It would establish a steering committee within the Faculty of Veterinary Medicine of Al Baath University for the purpose of the organized and effective common use of equipment and the improvement of undergraduate teaching program;

b) It would establish a maintenance committee within the Faculty in order to maintain properly the equipment provided by this Project;

c) It would establish a disease diagnosis committee within the Faculty for the establishment of systematic diagnosis of animal diseases and for the reflection of current animal disease situations to the veterinary education.

4-3. The Team handed one copy of the draft detailed specification of the equipment to Prof. Dr. Tamer Haddad, Dean, Faculty of Veterinary Medicine, Al Baath University. However, the item(s) of the equipment may be deleted and the draft specification of the equipment may have some changes after further study in Japan based on the result of the discussion during the draft report explanation.

Both sides agreed that this draft specification is confidential and should not be duplicated or released to any outside parties.



Annex 5.

List of References

	Title	Source
<u>Statistics</u>		
1.	Statistical Abstract, 1997, 1998	Office of the Prime Minister, Central Bureau of Statistics
2.	The Annual Agricultural Statistical Abstract, 1997	Ministry of Agriculture and Agrarian Reform
<u>Higher Education</u>		
1.	Achievement in High Education under the Glorious Correctionist Movement, 1997	Ministry of Higher Education
2.	National Report on Higher Education in the Syrian Arab Republic, 1998	World conference of Higher Education in the 21st Century / UNESCO and Ministry of Higher Education
3.	Budget Record of Al Baath University (1995 - 1998)	Al Baath University
4.	A Guide of the Faculty of Veterinary Medicine	Al Baath University
5.	Syrian Annual News, 1999	SPANNA / Al Baath University
6.	Curricula / Syllabi	Faculty of Veterinary Medicine
7.	Graduation Theses Records, 1998	Faculty of Veterinary Medicine
8.	Research Achievement Records, 1992 - 1999	Faculty of Veterinary Medicine
9.	Schedule of Scientific Trip for Students. 1998/1999	Faculty of Veterinary Medicine
10.	Building Drawings of Faculty of Veterinary Medicine	Faculty of Veterinary Medicine
<u>Animal Disease Records</u>		
1.	Infection Disease Records, 1980 - 1998	Directorate of Animal Health, MAAR
2.	Report on the Preventive Works and Treatment. 1998	Animal Health Office, Hama
<u>Others</u>		
1.	First Country Cooperation Framework for the Syrian Arab	UNDP
2.	Status of 1998 Delivery, as of 24 March 1999 in Syria	UNDP
3.	Questionnaire to Graduates of Faculty of Veterinary Medicine	Study Team
4.	Questionnaire to Students of Faculty of Veterinary Medicine	Study Team
5.	Water Quality Analysis Result	Study Team



JICA