

MINUTES OF DISCUSSIONS
ON
THE BASIC DESIGN STUDY
ON
THE PROJECT FOR IMPROVEMENT OF TEACHERS' RETRAINING
IN THE SECONDARY SPECIALIZED AND VOCATIONAL EDUCATION
IN THE REPUBLIC OF UZBEKISTAN
(EXPLANATION ON DRAFT FINAL REPORT)

In December 2002 and following February 2003, the Japan International Cooperation Agency (hereinafter referred to as "JICA") dispatched Basic Design Study Team 1 and 2 on THE PROJECT FOR IMPROVEMENT OF TEACHERS' RETRAINING IN THE SECONDARY SPECIALIZED AND VOCATIONAL EDUCATION (hereinafter referred to as "the Project") to the Republic of Uzbekistan (hereinafter referred to as "Uzbekistan"), and through discussion, field survey, and technical examination of the results in Japan, JICA prepared a draft final report of the study.

In order to explain and to consult with the Uzbekistan side on the contents of the draft final report, JICA sent to Uzbekistan the Draft Final Report Explanation Team (hereinafter referred to as "the Team"), which is headed by Mr. Yukihiro EJIRI, Senior Assistant to the Managing Director, Office of Technical coordination and Examination, Grant Aid Management Department, JICA, from June 3 to 13, 2003.

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

Tashkent, June 12, 2003

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ATTACHMENT

1. Components of the Draft Report

The Uzbekistan side agreed and accepted in principle the components of the draft final report explained by the Team. The agreed list of equipment is attached as **Annex-I**.

However, the final components of the project will be determined after the further analysis by the Government of Japan.

2. Project Site

The both sides agreed that the project sites were the Institute for Development of Secondary Specialized, Vocational Education (hereinafter referred to as "IDSSVE") and 9 Professional Colleges (hereinafter referred to as "PC"). The list of project sites is attached as **Annex - II**

3. Japan's Grant Aid scheme

- (1) Both sides confirmed the Japan's Grant Aid Scheme and the necessary measures to be taken by the Government of Uzbekistan as explained by the Team and described in **Annex- III** and **Annex - IV**.
- (2) The Uzbekistan side promised to take the necessary measures as described in **Annex - V** for smooth implementation of the Project, as a condition for the Japan's Grant Aid to be implemented.

4. Schedule of the Study

JICA will complete the final report in accordance with the confirmed items and will send it to Uzbekistan by the end of August 2003.

5. Responsible and Implementing Organization

The Responsible and Implementing Organization is the Center for Secondary Specialized, Vocational Education (hereinafter referred to as "CSSVE"), under the Ministry of Higher and Secondary Specialized Education (hereinafter referred to as "MHSSE"), that has the authority of teachers' retraining for the secondary specialized and vocational education.

6. Other relevant issues

- (1) The Uzbekistan side will complete the official appraisal for the Project and obtain the government approval for the implementation of the Project soon after E/ N is signed.
- (2) The Uzbekistan side agreed to allocate enough budget to effectively operate and maintain the equipment procured under the Grant Aid Scheme. The Uzbekistan side shall secure budget for consumables of the equipment. The CSSVE promised to secure sufficient annual budget through discussion with the Ministry of finance, and take necessary measures.
- (3) The Uzbekistan side agreed that renovation and preparation work, such as removal of old equipment and renovating facilities where new equipment was

to be installed, should be done by November 2004, by the Uzbekistan side for the smooth and effective implementation of the Project.

- (4) The Uzbekistan side understood and agreed the necessary and essential measures to be taken, especially for the Banking Arrangement and Authorization to Pay for the implementation.
- (5) The Uzbekistan side agreed that the CSSVE had responsibility to conduct regular monitoring and evaluation of the progress of all phases of the Project such as allocation and use of recurrent cost including operation and maintenance of the equipment, manpower in each project site, and provider fee for the internet among IDSSVE, local offices, and each local PC. Also, the Uzbekistan side promised to assign necessary number of qualified personnel for proper operation and maintenance of the equipment by the responsibility of the CSSVE.
- (6) The Uzbekistan side agreed to the following ;
 - 1) To exempt Japanese nationals engaged in the Project from all duties and related fiscal charges which may be imposed in Uzbekistan with respect to the import of the products and services supplied under the verified contract,
 - 2) To assume all fiscal levies and taxes imposed in Uzbekistan on Japanese nationals with respect to the payment carried out for and the income accruing from the supply of the products and services under the verified contract, and
 - 3) To take responsibility for the prompt liquidation or settlement of such fiscal levies, duties, taxes and other similar charges in connection with 1) and 2) mentioned above, and CSSVE under MHSSE shall be responsible for the necessary budget allocation in this matter.
- (7) Both sides confirmed that the profit made by using the procured equipment should be used only for the educational activities, maintenance of the equipment, and administrative activities in each PC.
- (8) For sustainable and effective operation and maintenance of the equipment, the Uzbekistan side pointed out the need for dispatch of Japanese experts or volunteers as well as technical training in Japan. Both sides agreed that the necessary information should be discussed between CSSVE and JICA Uzbekistan Office. The applications for those kinds of scheme will be prepared and submitted by the Government of Uzbekistan based upon the result of the discussions mentioned above.

- Annex - I** Agreed list of equipment
Annex - II List of Project Sites
Annex - III Japan's Grant Aid Program
Annex - IV Major undertakings by each government
Annex - V Necessary measures to be taken by the Uzbekistan side

LIST OF EQUIPMENT

Code No.	Sub No.	Description	Unit	Q'ty
NU0000		1. Nukus Polytechnic PC		
NU1000		1.1 Metalwork		
NU1100		Turnery workshop		
NU1101		Workbench with vice	set	2
NU1102		Standard lathe	pc	5
NU1104		Vertical drilling machine	pc	1
NU1105		Muffle furnace	pc	1
NU1106		Bench drilling machine	pc	1
NU1108		CNC lathe	pc	1
NU1109		Bench grinding machine	pc	1
NU1110		Bench lathe	pc	1
NU1111		Tool set with tool box	set	9
NU1200		Milling workshop		
NU1201		Workbench with vice	set	2
NU1202		Tool grinding machine, handy type	pc	1
NU1203		Universal milling machine	pc	1
NU1204		CNC milling machine	pc	1
NU1205		Bench drilling machine	pc	1
NU1208		Milling machine, vertical	pc	5
NU1209		Milling machine, horizontal	pc	1
NU1211		Grinding machine, cylindrical type	pc	1
NU1212		Tool set with tool box	set	9
NU1300		Metal workshop		
NU1301		Workbench with vice, teacher	set	1
NU1302		Workbench with vice	set	9
NU1304		Bench drilling machine	pc	1
NU1305		Vertical drilling machine	pc	1
NU1306		Shearing machine	pc	1
NU1307		Bench grinding machine	pc	2
NU1308		High-speed cut-off machine	pc	1
NU1309		Band sawing machine	pc	1
NU1310		Pipe bending machine	pc	1
NU1311		Press brake	pc	1
NU2000		1.2 Welding		
NU2001		Standard blocks for hardness testing	set	1
NU2002		Hardness tester, Rockwell	pc	1
NU2003		Hardness tester, Brinell	pc	1
NU2004		Magnetic flaw detector	pc	1
NU2005		Ultrasonic flaw detector	pc	1
NU2006		Arc welding apparatus	pc	6
NU2009		Spot welding apparatus, portable	pc	1
NU2010		Spot welding apparatus, fixed type	pc	1
NU2012		Acetylene gas generator	pc	1
NU2013		Oxygen gas cylinder	pc	6
NU2014		LPG/butane gas cylinder	pc	6
NU2015		Welding torch and cutting torch in set	pc	6
NU2016		Gas hose (for oxygen, acetylene, LPG or butane)	pc	6
NU2017		Acetylene gas reducer	pc	6
NU2018		Oxygen gas regulator	pc	6
NU2019		LPG/butane gas regulator	pc	6
NU2020		Gas torch lighter	pc	6
NU2021		Gas hose clamp	pc	24
NU2022		Cart for gas cylinders	pc	2
NU2023		Welding rod drying oven	pc	1
NU2026		Brazing kit with accessory	set	6
NU2027		Soldering/desoldering with accessory	pc	6
NU2030		DC arc welding apparatus with accessory	pc	1
NU2031		CO2 gas welding apparatus	pc	6
NU2033		Heater for CO2 cylinder	pc	6
NU2036		Electrodes/wire	set	1
NU2037		Tungsten electrode	pc	1
NU2038		Welding rod for carbon steel	pc	1

Code No.	Sub No.	Description	Unit	Qty
NU2039		Welding rod for alloy steel	pc	1
NU2040		Welding rod for cast iron	pc	1
NU2041		Welding rod for cast steel	pc	1
NU2042		Welding rod for stainless steel	pc	1
NU2046		Other welding rod	set	1
NU2047		Brazing materials	set	2
NU2049		Soldering material	set	1
UH0000		2. Urgench Medical PC		
UH1000		2.1 Nursing		
UH1100		The model raw of trainers		
UH1101		Trainer for first aid	pc	1
UH1103		Trainer for catheterization (male)	pc	1
UH1104		Trainer for catheterization (female)	pc	1
UH1200		Solid and relief models		
UH1201		Head, sagital section	pc	1
UH1202		Brain, arrangement	pc	1
UH1205		Spinal cord and nerves	pc	1
UH1206		Structure of eye	pc	1
UH1207		Structure of ear	pc	1
UH1209		Stomach, external and internal surface	pc	1
UH1211		Kidney	pc	1
UH1212		Urinary system	pc	1
UH1216		Liver	pc	1
UH1217		Liver organization	pc	1
UH1218		Inside surface of the small intestine and the large intestine	pc	1
UH1220		Organs in torso	pc	1
UH1221		Male sexual organs	pc	1
UH1222		Female sexual organs	pc	1
UH1227		Skin section	pc	1
UH1228		Lymphatic system	pc	1
UH1300		The electrified models		
UH1301		Universal trainer	pc	1
UH1303		Heart	pc	1
UH1305		Trunk muscles	pc	1
UH1400		The plastic bones of skeleton		
UH1401		Human skeleton (male and female)	pc	1
UH1402		Skull	pc	1
UH1500		Models on anatomy		
UH1501		Bronchial tubes	pc	1
UH1503		Funny-bone and muscles	pc	1
UH1504		Hand with adjoined muscles and nerves	pc	1
UH1507		Trunk	pc	1
UH1600		The sick nurse affair		
UH1601		Supersonic wave radiator	pc	1
UH1602		Haemoglobinometer	pc	2
UH1604		Calorimeter (photoelectric)	pc	1
UH1605		Newborn nursery apparatus	pc	1
UH1606		Stretcher	pc	1
UH1607		UV radiator	pc	2
UH1608		Sterilizer case	pc	4
UH1610		Trainer for muscular injection, venous injection	pc	5
UH1611		Electro distiller	pc	1
UH2100		Trainers		
UH2105		Newborn bathing and nursery care trainer	pc	1
UH2106		Emergency firstaid airway suction trainer	pc	1
UH2107		Newborn vital signs demonstrator	pc	1
UH2108		Childbirth trainer	pc	1
UH2200		2.2 Pharmacology		
UH2201		Assaying balance	pc	3
UH2202		Water bath	pc	4
UH2203		Electrical centrifuge	pc	4
UH2211		Organic chemistry set	set	32
UH2212		Magnetic stirring device without heating	pc	10
UH2213		Electronic scale	pc	4

Code No.	Sub No.	Description	Unit	Q'ty
UH2214		pH-meter and milivoltmeter	pc	4
UH2215		Pressure, volume and temperature apparatus	pc	4
UH2216		Chemical testing equipment	pc	4
UH2217		Biological microscope	pc	4
UH2218		Top table autoclave	pc	1
NA0000		3. Namangan Agro-economic PC		
NA1000		3.1 Veterinary		
NA1001		Autoclave	pc	1
NA1002		Apparatus for electric massage	pc	1
NA1003		Blood cell counter	pc	1
NA1004		Analytical balance	pc	1
NA1006		Big and small devices for feces of animals (set)	pc	5
NA1007		Big pathologoanatomic tool kit	set	1
NA1008		Vaginal mirror for female animals	pc	5
NA1009		Endoscopes	pc	1
NA1010		Thermometers for animals	pc	13
NA1011		Histological preparation set	pc	1
NA1012		Drug shooting pistol for animals	pc	1
NA1013		Manometer for animals	pc	5
NA1014		Tool set for measuring animal size	pc	1
NA1015		Percussion hammer with pleximeter	pc	2
NA1016		No-needle injector	pc	5
NA1017		Urinary catheter in set	pc	1
NA1018		Milking catheter in set	pc	1
NA1019		Cage for laboratory animals	pc	2
NA1020		Magnetic probes	pc	1
NA1021		Biological microscope for students	pc	13
NA1022		Veterinary- obstetrical tool kit	set	1
NA1023		Forceps for cutting hoofs	pc	1
NA1024		Hoof examination instrument	pc	1
NA1025		Tool kit, surgical large	set	1
NA1026		Probe for nasopharynx (nose/throat)	pc	1
NA1027		Probe for oesophagus	pc	1
NA1028		Metal detector	pc	1
NA1029		Device for testing /assessing milk quality	pc	1
NA1030		Device for taking blood	pc	1
NA1031		Device for inhalation	pc	1
NA1032		Device for mastitis milk	pc	1
NA1033		Device for identifying trichinosis	pc	1
NA1034		Portable disinfections unit	pc	1
NA1035		Galvanized table necrotomy of big animals	pc	1
NA1036		Electronic balance	pc	1
NA1037		Alcohol meter	pc	5
NA1038		Universal bench for fixing animals	pc	1
NA1039		Stetho-phonendoscope	pc	2
NA1040		Table for instruments	pc	1
NA1041		Shelf for instruments	pc	1
NA1042		Surgery table for big animals with light stand	set	1
NA1043		Surgery table for small animals with light stand	set	1
NA1044		Water heating apparatus with thermostat	pc	1
NA1045		Trocar	set	5
NA1046		Refrigerator	pc	1
NA1047		Centrifuge	pc	1
NA1048		Syringe-injectors in set	set	5
NA1049		Electrocardiograph	pc	1
NA1050		Freezer	pc	1
NA1051		Electric oven with time switch	pc	1
NA1052		Cow model for insemination	pc	1
NA1053		Model of cow skeleton	pc	1
NA1054		Model of cow internal organs, muscular system	pc	1
NA2000		3.2 Agronomy		
NA2001		Soil sieve	pc	1
NA2002		Electronic balance	pc	1
NA2003		Analytical balance	pc	1

Code No.	Sub No.	Description	Unit	Qty
NA2004		Pot-soil heating apparatus	pc	6
NA2005		Desiccators	pc	6
NA2006		Cool incubator	pc	1
NA2007		Soil compaction testing apparatus	pc	1
NA2008		Soil auger	pc	1
NA2009		Soil color chart	pc	1
NA2010		Biological microscope	pc	6
NA2011		Titration device for chemical analysis of fruits and vegetables	pc	1
NA2012		Sulphate test strips	pc	1
NA2013		Laboratory pH meter	pc	1
NA2014		Hydroponics complete analysis kit	set	1
NA2015		Salinity meter	pc	1
NA2016		Soil moisture meter with soil moisture blocks	pc	1
NA2017		Current flow meter	pc	1
NA2018		Soil Thermometer	pc	6
NA2019		Spectrophotometer	pc	1
NA2020		Chromatography	pc	1
NA2021		Colorimeter	pc	1
NA2022		Penetrometer	pc	1
AS0000		4. Asaka Agricultural PC		
AS1000		4.1 Operation and maintenance of agricultural machines and equipment		
AS1001		Tractor structure trainer	pc	1
AS1002		Diesel engine trainer	pc	1
AS1003		Model of fuel system	pc	1
AS1004		Model of internal combustion engine, sectioned	pc	1
AS1005		Model of 4-timely motor of internal combustion engine, sectioned	pc	1
AS1006		Car structure trainer	pc	1
AS1007		Model of fuel injection pump	pc	1
AS1008		Model of carburetor	pc	1
AS1009		Model of starting motor	pc	1
AS1010		Model of transmission	pc	1
AS1011		Model of clutch	pc	1
AS1012		Model of rear axle, sectioned	pc	1
AS1013		Working model of rear axle	pc	1
AS1014		Four-wheel tractor	pc	1
AS1015		Three-wheel tractor	pc	1
AS1017		Disk harrow	pc	1
AS1018		Vegetable seeding-machine	pc	1
AS1019		Spreader of mineral fertilizers	pc	1
AS1020		Cultivator	pc	1
AS1021		Subsoil cultivator	pc	1
AS1022		Sprayer for pest control	pc	1
AS1023		Potato digger	pc	1
AS1024		Rotor mowing-machine	pc	1
AS1025		Standard lathe	pc	1
AS1026		Desk drilling lathe	pc	1
AS1027		Arc welding apparatus	pc	1
AS1028		Spot welding apparatus	pc	1
AS1029		Balancing machine	pc	1
AS1030		Gas welding apparatus	set	1
AS1031		Torque wrench	pc	2
AS1032		Distilling apparatus	pc	1
AS1033		Hydraulic stacker truck	pc	1
AS1034		Full set of tools for metal soldering	set	1
AS1036		Hydraulic jack	pc	1
AS1037		Tire pressure measuring instrument	pc	1
AS1038		Compressor	pc	1
AS1040		Oil pump	pc	1
AS1041		Oil bucket pump	pc	1
AS1042		Riveter	pc	1
AS1043		Battery charger	pc	1
AS1044		Equipment for repair, assembling and disassembling of tires	pc	1
AS1045		Hand mechanized tools set	set	4
AS1046		Grease gun	pc	1

Code No.	Sub No.	Description	Unit	Qty
AS1047		Lubricator	pc	1
KO0000		5. Kokand PC of Human Services		
KO1000		5.1 Public catering		
KO1100		5.1.1 Catering department		
KO1101		Rotary griller	pc	1
KO1102		Bakery oven	pc	1
KO1103		Bakery fermentation box	pc	1
KO1104		Steamer	pc	2
KO1106		Siphon pump for oil	pc	1
KO1107		Mixer for forming	pc	1
KO1108		Molder	pc	1
KO1109		Mixer for viscous materials	pc	1
KO1110		Tableware washing machine	pc	1
KO1113		Fryer	pc	2
KO1114		Juicer	pc	1
KO1115		Hot storage box	pc	1
KO1117		Refrigerator	pc	1
KO1118		Range with oven	pc	1
KO1119		Grille	pc	1
KO1121		Braising pan	pc	1
KO1122		Steamer	pc	1
KO1200		5.1.2 Teaching bread-roll department		
KO1205		Dividing and making roll dough machine	pc	1
KO1208		Kneader for dough	pc	1
KO1210		Reverse sheet	pc	1
KO2000		5.2 Repair and service of radio engineering and teleequipment		
KO2100		5.2.1 Study room of radio electric devices		
KO2107	1	Laboratory stands " electronic amplifiers "	set	2
KO2107	2	Oscilloscope	pc	2
KO2107	3	Voltmeter	pc	2
KO2107	4	Functional generator	pc	2
KO2108	1	Stand " Radio receptionsending devices "	set	2
KO2108	2	LF Signal Generator	pc	4
KO2108	3	Voltmeter	pc	4
KO2108	4	Frequency Counter	pc	4
KO2108	5	Oscilloscope	pc	4
KO2108	6	RF Signal Generator	pc	4
KO2113	1	Stand " Pulse digital engineering "	set	2
KO2113	2	LF Signal Generator	pc	2
KO2113	3	Voltmeter	pc	2
KO2113	4	Oscilloscope	pc	2
KO2113	5	Frequency Counter	pc	2
KO2116	1	Stand " Amplifiers of a constant current "	set	1
KO2116	2	LF Signal Generator	pc	1
KO2116	3	Voltmeter	pc	1
KO2116	4	Oscilloscope	pc	1
KO2117	1	Circuit of power supplies	set	1
KO2117	2	Voltmeter	pc	1
KO2117	3	Oscilloscope	pc	1
KO2200		5.2.2 Study room of " Radio engineering and TV bases "		
KO2203	1	Unwrapped breadboard model of the TV set	set	2
KO2203	2	Color Pattern Generator	pc	2
KO2203	3	Sweep Generator	pc	2
KO2204		Video recorder	set	2
KO2205		Cassette tape recorder	set	2
KO2206		Amplifier (15 W)	pc	1
KO2207		Columns (15 W)	pc	1
KO2208		Radio-receiver	pc	1
KO2212		Video camera	pc	1
KO2216		Oscillograph 100 MHz	pc	1
KO2218		Spectral multi meter	pc	2
KO2220		Digital L, C, R measurement	pc	1
KO2223		Power supply	pc	5
KO2225		Universal tester for diodes and transistors	pc	1

Code No.	Sub No.	Description	Unit	Qty
KO2233		Color TV set	pc	1
KO2235		Lamp-transistor TV set	pc	1
KO2300		5.2.3 Workshop on teleradio apparatus repairs		
KO2301		Autotransformer	pc	5
KO2303		Radio repairs tool sets	set	25
KO2305		Oscillograph	pc	5
KO2308		Welder apparatus of weld	pc	2
KO2309		Drilling machine tool	pc	2
KO2310		Signal generator	pc	1
KO2311		Metal joiner's bench	set	2
KO2314		Desk lathe	pc	1
KO2320		Tester	pc	25
KO2322		Functional generator	pc	1
BU0000		6. Bukhara Construction and Municipal PC		
BU1000		6.1 Installation and repair of equipment for gas supply system		
BU1001		Pressure test apparatus	pc	1
BU1002		Gas meter installed in provider	pc	2
BU1003		Gas meter installed in house	pc	2
BU1004		Equipment for measuring combustion parameter	pc	2
BU1005		Hand-operated pipe threader	pc	12
BU1006		Electrical pipe threader	pc	2
BU1007		Hand-operated pipe bender	pc	1
BU1008		Electrical pipe bender	pc	2
BU1009		Power hacksaw	pc	1
BU1010		Reciprocating saw	pc	4
BU1011		Hand-operated pipe cutters	pc	12
BU1012		Electrical pipe cutters	pc	2
BU1013		Pipe vice with tripod	pc	4
BU1015		Hand-operated chain hoist	pc	2
BU1016		Flame propagation and stability experimental apparatus	pc	1
BU1019		Reynolds experimental apparatus	pc	1
BU1021		Resistant loss measuring apparatus	pc	1
BU2000		6.2 Installation of electric networks and equipment		
BU2002		Displaced current ampere meters (digital)	pc	5
BU2004		Solar batteries	pc	5
BU2005		Baths with electrode	pc	3
BU2006		Low voltage power source	pc	3
BU2012		Indicators of induction magnet field	pc	1
BU2013		Variable transformer	pc	3
BU2015	1	AC current motor test bench	set	1
BU2015	2	Volt/Ammeter	pc	3
BU2015	3	Tachometer	pc	3
BU2015	4	Load Rheostat	pc	2
BU2015	5	3-Phase Load Rheostat	pc	1
BU2015	6	Wattmeter	pc	3
BU2016	1	Electronic Network test bench	set	3
BU2016	2	Megger	pc	3
BU2016	3	Clamp Multimeter	pc	6
BU2016	4	Luxmeter	pc	3
BU2021		Shop of laboratory resistance	pc	3
BU2023		Milliampere meter	pc	3
BU2025		Complete of capacitors	pc	3
BU2031		Oscillograph	pc	3
BU2033		High voltage transformer	set	1
BU2034	1	Relay test bench	pc	2
BU2034	2	Megger	pc	2
BU2034	3	Relay Tester	pc	2
BU2034	4	Milti Tester	pc	2
BU2034	5	Earth Tester	pc	2
BU2035		Instruments for demonstration rules of Lenz	set	1
BU2042		Rheostat	pc	3
BU2045	1	Load test bench	set	2
BU2045	2	LCR Meter	pc	2
BU2045	3	Voltmeter	pc	2

Code No.	Sub No.	Description	Unit	Qty
BU2045	4	Power Factor Meter	pc	2
BU2045	5	Wattmeter	pc	2
BU2049		Laboratory thermometers	pc	3
BU2050		Thermo resistors on log	pc	3
BU2051		Thermopolis	pc	1
BU2053	1	Transformers test Bench	set	3
BU2053	2	Wattmeter	pc	3
BU2053	3	Voltmeter	pc	3
BU2053	4	Power Factor Meter	pc	3
BU2053	5	Load Rheostat	pc	3
BU2053	6	3-Phase Load Rheostat	pc	3
BU2059		Hand drill	pc	3
BU2060		Coil winding	pc	3
BU2061		Motor sets	set	13
BU2062		Trans kit	set	13
BU2063		Distribution Assembly Kit	set	13
BE0000		7. Beshkent Agricultural PC		
BE1000		7.1 Zootechnics		
BE1001		Autoclave	pc	1
BE1002		Apparatus for electric massage	pc	1
BE1003		Blood cell counter	pc	1
BE1004		Analytical balance	pc	1
BE1006		Big and small devices for feces of animals (set)	set	5
BE1007		Big pathologoanatomic tool kit	set	1
BE1008		Vaginal mirror for female animals	pc	5
BE1009		Endoscopes	pc	1
BE1010		Thermometers for animals	pc	13
BE1011		Histological preparations set	pc	1
BE1012		Drug shooting pistol for animals	pc	1
BE1013		Manometer for animals	pc	5
BE1014		Tool set for measuring animal size	pc	1
BE1015		Percussion hammer with pleximeter	pc	2
BE1016		No-needle injector	pc	5
BE1017		Urinary catheter in set	pc	1
BE1018		Milking catheter in set	pc	1
BE1019		Cage for laboratory animals	pc	2
BE1020		Magnetic probes	pc	1
BE1021		Biological microscope for students	pc	13
BE1022		Veterinary- obstetrical tool kit	set	1
BE1023		Forceps for cutting hoofs	pc	1
BE1024		Hoof examination instrument	pc	1
BE1025		Tool kit, surgical large	set	1
BE1026		Probe for nasopharynx (nose/throat)	pc	1
BE1027		Probe for oesophagus	pc	1
BE1028		Metal detector	pc	1
BE1029		Device for testing /assessing milk quality	pc	1
BE1030		Device for taking blood	pc	1
BE1031		Device for inhalation	pc	1
BE1032		Device for mastitis milk	pc	1
BE1033		Device for identifying trichinosis	pc	1
BE1034		Portable disinfections unit	pc	1
BE1035		Galvanized table necrotomy of big animals	pc	1
BE1036		Electronic balance	pc	1
BE1037		Alcohol meter	pc	5
BE1038		Universal bench for fixing animals	pc	1
BE1039		Stetho-phonendoscope	pc	2
BE1040		Table for instruments	pc	1
BE1041		Shelf for instruments	pc	1
BE1042		Surgery table for big animals with light stand	set	1
BE1043		Surgery table for small animals with light stand	set	1
BE1044		Water heating apparatus with thermostat	pc	1
BE1045		Trocar	pc	5
BE1046		Refrigerator	pc	1
BE1047		Centrifuge	pc	1

Code No.	Sub No.	Description	Unit	Qty
BE1048		Syringe-injectors in set	set	5
BE1049		Electrocardiograph	pc	1
BE1050		Freezer	pc	1
BE1051		Electric oven with time switch	pc	1
BE1052		Cow model for insemination	pc	1
BE1053		Model of cow skeleton	pc	1
BE1054		Model of cow internal organs, muscular system	pc	1
BE1055		Drying chamber	pc	1
BE1056		Special instrument for piercing, branding, tattooing of animals	set	1
BE1057		Anemometer	pc	1
BE1058		Gas analyzer	pc	1
BE1059		Hygrometer	pc	1
BE1060		Goggles	pc	1
BE1061		Shedding units for horses, big-horn animals, pigs, dogs	set	1
BE1062		Pregnancy calendar for agricultural animals	pc	1
BE1063		Pincers for nose	set	1
BE1064		Obstetrical loops	pc	1
BE1065		Water bath	pc	1
BE1066		Syringe catheters in set	pc	1
BE1067		Egg incubator	pc	1
BE1068		Auto-feeder	pc	1
BE1069		Feed mixer	pc	1
BE1070		Infra-red lamp with stand	pc	1
BE1071		Ultraviolet lamp with stand	pc	1
BE1072		Milking machine	pc	1
BE1073		Wool cutters/shearing device in set with grinders	pc	13
BE2000		7.2 Technology for preservation of agricultural products		
BE2002		Inspection conveyor	pc	1
BE2003		Vegetable slicer	pc	1
BE2004		Frying device	pc	1
BE2005		Cutting table	pc	3
BE2007		Can seamer and bottle capper	pc	1
BE2008		Autoclave	pc	2
BE2009		Kneader	pc	2
BE2010		Juicer	pc	1
BE2011		Juice press	pc	1
BE2012		Mark printing machine	pc	1
BE2013		Meat chopper	pc	1
BE2014		Twin screw mixer	pc	1
UT0000		8 Urgut PC of Construction and National Handicraft		
UT1000		8.1 Joiner's carpentry and parquet works		
UT1001		Thickness planer	pc	1
UT1002		Wood lathe	pc	1
UT1003		Jointer	pc	1
UT1004		Tenon cutting machine	pc	1
UT1005		Saw sharpening machine	pc	1
UT1006		Mortising machine	pc	1
UT1007		Portable circular saw	pc	1
UT1008		Router machine	pc	1
UT1009		Electric floor sander	pc	1
UT1010		Electric floor planer	pc	1
UT1011		Electric floor polisher	pc	1
UT1012		Belt sander	pc	1
UT1013		Pedestal grinder	pc	1
UT1014		Portable electric planer	pc	1
UT1015		Circular saw	pc	1
UT1016		Spray gun with air compressor	pc	1
UT1017		Lacquer sprayer	pc	1
UT1018		Radial saw	pc	1
UT1019		Saw blade set	set	1
UT1020		Carpentry tools set	set	1
UT1021		Hand saw	pc	13
UT1022		Wood chisel set	set	13
UT1023		Jack plane	pc	13

Code No.	Sub No.	Description	Unit	Qty
UT1024		Smoothing plane	pc	13
TA0000		9. Tashkent Technologic PC		
TA1000		9.1 Food processing (bread, sweets, macaronis confectionary)		
TA1003		Screening machine of flour and sugar	pc	1
TA1006		Kneader for dough	pc	2
TA1008		Dividing and making roll dough machine	pc	1
TA1012		Bakery oven	pc	1
TA1013		Macaroni extruder and formation machine	pc	1
TA1028		Molder	pc	1
TA1030		Grinding mill for recovery product	pc	1
TA1031		Bakery oven for cookie	pc	1
TA1032		Kneader for macaroni dough	pc	1
TA1033		Cutting machine for wafer	pc	1
TA1034		Press machine for cookie	pc	1
TA1036		Mixer for viscous materials	pc	1
TA1038		Éclair formative machine	pc	1
TA1039		Kneader for biscuit and cream	pc	1
TA1041		Emulsion-mixer for batter and wafer paste	pc	1
TA1042		Waffle baker	pc	1
TA1043		Coating machine for paste	pc	1
TA1044		Bakery fermentation box	pc	1
TA1047		Automatic twist-wrapping machine for cookies and wafers	pc	1
TA1048		Macaroni dryer	pc	1
TA1049		Revers sheet	pc	1
TA2000		9.2 Operation and maintenance of equipment for food production		
TA2001		Air separator	pc	1
TA2002		Vibration separator	pc	1
TA2003		Disk cleaner for grain	pc	1
TA2006		Magnetic separator	pc	1
TA2007		Grain flow meter	pc	1
TA2008		Dosing mechanism for grain	pc	1
TA2009		Wet grain pilling machine	pc	1
TA2010		Polishing machine for grain	pc	1
TA2011		Sieving machine for grain	pc	1
TA2013		Peeler machine	pc	1
TA2014		Bucker	pc	1
TA2015		Mixer for foddors	pc	1
TA2016		Roller mill	pc	1
TA2017		Threshing machine	pc	1
CM0000		10. Common Equipment for 9 PCs		
CM0001		Overhead projector	pc	9
CM0002		Video camera (handy type)	pc	9
CM0003		LCD projector with screen	set	9
CM0004		Voideo authorization system	set	9
CM0007		Mini bus	pc	9
C00000		11. IDSSVE, CSSVE & Regional Centers		
F00000		11.3 IDSSVE (Faculty)		
F10000		11.3.1 Server section		
F10001		Proxy/mail server	pc	1
F10002		Fire wall /DNS server	pc	1
F10003		Network computer	pc	1
F10005		UPS	pc	3
F10006		Laser printer	pc	1
F10008		HUB A	pc	1
F10009		HUB B	pc	9
F10010		Modem	pc	2
F30000		11.3.3 Chair of information		
F30001		Computer	pc	2
F30005		Scanner	pc	1
F30006		Color printer	pc	1
F40000		11.3.4 Chair of professional methods		
F40001		Computer	pc	1
F40002		Laser printer	pc	1

Code No.	Sub No.	Description	Unit	Qty
F50000		11.3.5 Chair of pedagogic and psychology		
F50001		Computer	pc	1
F50002		Laser printer	pc	1
F60000		11.3.6 Chair of economy and management		
F60001		Computer	pc	1
F60002		Laser printer	pc	1
F70000		11.3.7 Chair of public subjects		
F70001		Computer	pc	1
F70002		Laser printer	pc	1
F80000		11.3.8 Class Rooms(5)		
F80003		Multimedia projector with screen	set	3
F80004		OHP	pc	3
F80005		Video eye	pc	3
F80007		Blackboard	pc	5
F80008		Stand board	pc	3
F90000		11.3.9 Conference Hall		
F90005		Audio video set	set	1
F90012		Video camera	pc	1
FA0000		11.3.10 Digitalized Library		
FA0001		Server computer	pc	1
FA0002		Computer	pc	1
FA0003		UPS	pc	2
FA0004		Laser printer	pc	1
FA0005		Multimedia projector with screen	set	1
FA0007		Copy machine A3	pc	1
FA0010		TV and video set	set	1
FA0011		Video camera	pc	1
FA0014		Blackboard	pc	1
FA0015		Stand board	pc	1
FB0000		11.3:11 Mini Printing Room		
FB0010		Copy machine A3	pc	1
FC0000		11.3.12 Printing House		
FC1000		(The Shop of Preprinting Prepare)		
FC1100		(Designer Section)		
FC1101		Server computer	pc	1
FC1102		Computer	pc	2
FC1103		UPS	pc	3
FC1107		Scanner, flat-bed	pc	1
FC1108		Printer for color testing	pc	1
FC1110		Laser printer, A4	pc	1
FC1111		Printer, color A3	pc	1
FC1200		(Section of Computer Composition)		
FC1201		Computer	pc	3
FC1202		UPS	pc	3
FC1205		Assembled table	pc	1
FC2000		(The Shop of Printing)		
FC2100		(Section of Making Forms)		
FC2101		Film printer (Imagesetter)	pc	1
FC2102		Film processor	pc	1
FC2103		PS plate printer	pc	1
FC2104		PS plate processor	pc	1
FC2105		Assembled table	pc	1
FC2200		(Section of Printing)		
FC2201		Printing machine, 2-Color	pc	1
FC2202		Printing machine, mono-color	pc	1
FC2205		Digital printer A3	pc	1
FC3000		(After Printing Shop)		
FC3001		Folding machine	pc	1
FC3004		Select machine for writing books	pc	1
FC3006		Thread sewing machine	pc	1
FC3007		Wire sewing machine	pc	1
FC3010		Thermobinding machine	pc	1
FC3012		I-knife cut machine for big sheets	pc	1
FC4000		(Special Equipment)		

Code No.	Sub No.	Description	Unit	Qty
FC4001		Measuring equipment (densitometer)	set	1
FC5000		(Additional equipment)		
FC5001		Humidifier, hygrometer	lot	1
FD0000		11.3.13 For retraining on information technology		
FD1000		(Laboratory of New Information Technology)		
FD1001		Server computer	pc	1
FD1002		Computer	pc	4
FD1004		UPS	pc	5
FD1005		(Network equipment)		
FD1006		Computer(Notebook type)	pc	2
FD1007		Scanner A3	pc	1
FD1009		Laser printer, color	pc	1
FD1012		CD/R-RW	pc	2
FD1016		Multimedia projector	pc	1
FD1026		TV and video set	pc	1
FD1028		Video tape recorder, digital	pc	1
FD1029		Audio tape recorder	pc	1
FD1030		Video camera, digital	pc	2
FD1031		Photo camera, digital	pc	2
FD1033		CD & DVD player	pc	1
FD1036		Fax machine	pc	1
FD2000		(Specialized IT Class Room)		
FD2001		Server computer	pc	1
FD2002		Computer	pc	13
FD2003		UPS	pc	14
FD2004		Laser printer	pc	1
FD2007		Multimedia projector	pc	1
FD2008		OHP	pc	1
FD2009		Video eye	pc	1
FD2010		Blackboard	pc	1
FD2011		Stand board	pc	1

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