

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

Based on the results of the Basic Design Study 1, the Government of Japan decided to conduct Basic Design Study 2 on the Project for Improvement of Teachers' Retraining in the Secondary Specialized and Vocational Education (hereinafter referred to as "the Project") and entrusted the study to the Japan International Cooperation Agency (hereinafter referred to as "JICA").

JICA sent to the Republic of Uzbekistan (hereinafter referred to as "Uzbekistan") the Basic Design Study Team (II) (hereinafter referred to as "the Team(II)"), which is headed by Mr. Yukihiro Ejiri, Senior Assistant to the Managing Director, Office of Technical Coordination and Examination, Grant Aid Management Department, JICA, and is scheduled to stay in the country from February 4 to March 4.

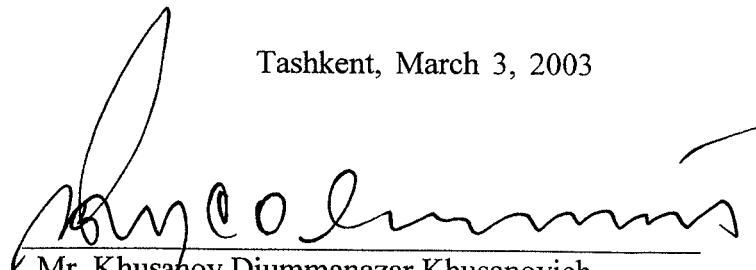
The Team held discussions with the officials concerned of the Government of Uzbekistan and conducted a field survey at the project sites.

In the course of discussions and field survey, both parties confirmed the main items described on the attached sheets.

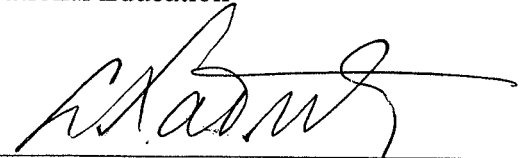
Tashkent, March 3, 2003

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ATTACHMENT

1. Interim Report

In response to the results of the Basic Design Study 1 conducted in last November and December, the Japanese side explained the Interim Report to the Uzbekistan side and the Uzbekistan side understood all the contents of the Report.

2. Objective of the Project

The objective of the Project is to improve the quality of vocational education in the secondary specialized and vocational level, as required in the National Program for Personnel Training, through the improvement of teachers' retraining by providing equipment to the Institute for Development of Secondary Specialized, Vocational Education (hereinafter referred to as "IDSSVE") and other related organizations, including the regional centers of Center for Secondary Specialized, Vocational Education (hereinafter referred to as "CSSVE"), and professional colleges (hereinafter referred to as "PC") selected as teachers' retraining centers.

3. Project Sites

The project sites are the regional centers of CSSVE at 14 locations, IDSSVE, and 9 PCs.

The list of 9 PCs is attached as Annex-1.

4. Responsible and Implementing Organization

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

5. Items Requested by the Government of Uzbekistan

After discussion with the Team(II), the Uzbekistan side finalized the request of the items as listed in Annex-2. However, the final components of the Project will be determined after further studies and analysis by the concerned parties in Japan.

6. Japan's Grant Aid Scheme

- 6-1 The Uzbekistan side understood the Japan's Grant Aid Scheme and the necessary measures to be taken by the Government of Uzbekistan as described in Annex-3.
- 6-2 The both sides will take the necessary measures, as described in Annex-4, for smooth implementation of the Project, as a condition for the Japan's Grant Aid to be implemented.

7. Schedule of the Study

- 7-1 Based on the Minutes of Discussions and technical examination of the study results, JICA will prepare the draft report and dispatch a mission in order to explain its contents after May 2003.
- 7-2 In case that the contents of the draft report are acceptable in principle by the Uzbekistan side, JICA will complete the final report and send it to the Uzbekistan side after August 2003.

8. Necessary Measures to be taken by the Government of Uzbekistan

- 8-1 The Uzbekistan side promised to secure sufficient annual budget to maintain the equipment provided to the project sites under the Japan's Grant Aid.
- 8-2 The Uzbekistan side promised to assign necessary number of qualified personnel for proper operation and maintenance of the equipment provided under the Japan's Grant Aid.
- 8-3 The Uzbekistan side promised to take necessary measures before the implementation of the Project so that the equipment could be used effectively as follows:
- (1) To prepare enough space for the teachers' retraining,
 - (2) To assign enough staff,
 - (3) To raise skills of the teaching staff, and
 - (4) To improve the quality of teachers' retraining.
- 8-4 The Government of Uzbekistan agreed to take necessary measures as described in Annex-4 on the condition that Japan's Grant Aid is extended.

9. Other Relevant Issues

9-1 Fiscal levy, tax and duty

The Uzbekistan side agreed on the following points:

- (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.

Annex-1	List of requested PCs
Annex-2	List of requested Items
Annex-3	Japan's Grant Aid Scheme
Annex-4	Major Undertakings to be taken by Each Government

List of Requested PCs

№	Name of Higher Institutions	Regions	Name of Professional College	Course of Retraining
1	Karakalpak State University	The Republic of Karakalpakstan Khorezm Region	Nukus Polytechnic Professional College	Metal work, welding
2	Subsidiary of 1 st Tashkent Medical Institute	The Republic of Karakalpakstan Khorezm Region	Urgench Medical Professional College	Pharmacology, nursing
3	Namangan Engineering Pedagogical Institute, Fergana Polytechnic Institute	Andijan, Fergana, Namangan Regions	Namangan Agro-economic Professional College	Agronomy, veterinary
4			Asaka Agricultural Professional College	O&M of agricultural machines and equipment
5			Kokand Services Professional College	Public catering, repair and service of radio engineering and tele-equipment
6	Bukhara Technological Institute of Food and Light Industry	Bukhara and Navoi Regions	Bukhara Construction and Services Professional College	Installation and repair of equipment for gas supply system, installation of electric networks and equipment
7	Karshi Engineering Economics Institute	Kashkadarya and Surhandarya Regions	Beshkent Agricultural Professional College	Technology for preservation of agricultural products, Zoo-technics.
8	Samar kand State Architectural Constructional Institute	Samar kand and Djizzak Regions	Urgut Construction and National Arts Professional College	Joiner's carpentry and parquet works
9	Tashkent Chemical Technology Institute	Teshkent Region and Tashkent city	Tashkent (Mirza Ulugbek) Technology Professional College	Food processing (bread, sweets, macaronis, confectionary), O&M of equipment for food production

List of Requested Items

Code No.	No.	Name of equipment	Unit	Q'ty *	Q'ty with Priority **			
					A	B	C	D
NU0000	1	Nukus Polytechnic PC						
NU1000	1.1	Metalwork						
NU1100		Turnery workshop						
NU1101	1	Workbench with vice	pcs	2	2			
NU1102	2	Standard lathe	pcs	10	5		2	3
NU1103	3	Lifting-rotary chair	pcs	25			25	
NU1104	4	Vertical drilling machine	pc.	1	1			
NU1105	5	Muffle furnace	pc.	1	1			
NU1106	6	Bench drilling machine	pc.	1	1			
NU1107	7	Turret lathe	pcs	5	1			
NU1108	8	CNC lathe	pcs	4		1		3
NU1109	9	Bench grinding machine	pc.	1	1			
NU1110	10	Bench lathe	pc.	1		1		
NU1111	11	Tool set with tool box	pcs	13	13			
NU1200		Milling workshop						
NU1201	1	Workbench with vice	pcs	2	2			
NU1202	2	Tool grinding machine, handy type	pcs	2			1	1
NU1203	3	Universal milling machine	pcs	8	2		1	5
NU1204	4	CNC milling machine	pcs	2	2			
NU1205	5	Bench drilling machine	pc.	1			1	
NU1206	6	Chair for vertical drilling	pc.	1				1
NU1207	7	Machining center, vertical type	pcs	4				4
NU1208	8	Boring machine, vertical	pc.	1	1			
NU1209	9	Milling machine, horizontal	pc.	1	1			
NU1210	10	Grinding machine, surface type	pcs	2	1			1
NU1211		Grinding machine, cylindrical type		0	1			
NU1212	11	Tool set with tool box	pcs	13			13	
NU1213	12	Chair, lifting rotary	pcs	25			25	
NU1300		Metal workshop						
NU1301	1	Workbench with vice, teacher	pc.	1	1			
NU1302	2	Workbench with vice	pcs	25	25			
NU1303	3	Chair for lifting rotary	pcs	25			25	
NU1304	4	Bench drilling machine	pc.	1	1			
NU1305	5	Vertical drilling machine	pc.	1	1			
NU1306	6	Shearing machine	pc.	1	1			
NU1307	7	Bench grinding machine	pc.	1	2			
NU1308	8	High-speed cut-off machine	pc.	1	1			
NU1309	9	Band sawing machine	pc.	1	1			
NU1310	10	Pipe bending machine	pc.	1	1			
NU1311	11	Press brake	pc.	1	1			
NU2000	1.2	Welding						
NU2001	1	Standard blocks for hardness testing	set	1	1			
NU2002	2	Hardness tester, Rockwell	unit	1	1			
NU2003		Hardness tester, Brinell	unit	0	1			
NU2004	3	Magnetic flaw detector	unit	1	1			
NU2005	4	Ultrasonic flaw detector	unit	1			1	
NU2006	5	Arc welding apparatus	units	4	6			
NU2007	6	TIG welding apparatus	units	2			1	1
NU2008	7	MIG welding apparatus	units	2				2
NU2009	8	Spot welding apparatus, portable	units	2	1			1
NU2010		Spot welding apparatus, fixed type	unit	0	1			
NU2011	9	Gas welding unit	set	6				6
NU2012	10	Acetylene gas generator	unit	1	6			
NU2013	11	Oxygen gas cylinder	pc.	1	6			
NU2014	12	LPG/butane gas cylinder	pc.	1	6			
NU2015	13	Welding torch and cutting torch in set	set	1	6			

Code No.	No.	Name of equipment	Unit	Q'ty *	Q'ty with Priority **			
					A	B	C	D
NU2016	14	Gas hose (for oxygen, acetylene, LPG or butane)	pc.	1	1			
NU2017	15	Acetylene gas reducer	pcs.	2	6			
NU2018	16	Oxygen gas regulator	pcs.	2	6			
NU2019	17	LPG/butane gas regulator	pcs.	2	6			
NU2020	18	Gas torch lighter	pcs.	2	6			
NU2021	19	Gas hose clamp	pcs.	2	48			
NU2022	20	Cart for gas cylinders	pcs.	2	2			
NU2023	21	Welding rod drying oven	pcs.	2	1			1
NU2024	22	Welding rod container	pc.	1				1
NU2025	23	Flux container	pc.	1				1
NU2026	24	Brazing kit with accessory	pc.	1	2			
NU2027	25	Soldering/desoldering with accessory	pc.	1	6			
NU2028	26	Plastic welding kit (had vinyl chloride, polyethylene	pc.	1				1
NU2029	27	Fire extinguisher (powder type)	pc.	1				1
NU2030	28	DC arc welding apparatus with accessory	pcs.	2	1			1
NU2031	29	CO2 gas welding apparatus	pcs.	4	2		2	
NU2032	30	Plastic bounding kit with accessory	pc.	1				1
NU2033	31	Heater for CO2 cylinder	pc.	1		2		
NU2034	32	AC/DC arc welding Apparatus with accessories	pc.	1				1
NU2035	33	Submerge arc welding apparatus	pc.	1			1	
NU2036	34	Electrodes/wire	set	1	1			
NU2037	35	Tungsten electrode	pc.	1			1	
NU2038	36	Welding rod for carbon steel	sets	2	1			1
NU2039	37	Welding rod for alloy steel	sets	2	1			1
NU2040	38	Welding rod for cast iron	sets	1	1			
NU2041	39	Welding rod for cast steel	sets	2	1			1
NU2042	40	Welding rod for stainless steel	sets	2	1			1
NU2043	41	TIG welding rod for Aluminum	sets	2			1	1
NU2044	42	MIG welding wire (1.0 - 1.6Φ)	sets	3				3
NU2045	43	Welding flux	bags	3			1	2
NU2046	44	Other welding rod	set	1			1	
NU2047	45	Brazing materials	sets	2	1			1
NU2048	46	Powder welding wire	pcs.	3				3
NU2049	47	Soldering material	set	1	1			
UH0000	2	Urgench Medical PC						
UH1000	2.1	Pharmacy/Nursing						
UH1100		The model raw of trainers						
UH1101	1	Trainer for first aid	pc.	1	1			
UH1102	2	Trainer for emergency treatment	pc.	1	1			
UH1103	3	Trainer for catheterization (male)	pc.	1	1			
UH1104	4	Trainer for catheterization (female)	pc.	1	1			
UH1105	5	Trainer for vagina investigation	pc.	1	1			
UH1200		Solid and relief models						
UH1201	1	Head, sagital section	pc.	1	1			
UH1202	2	Brain, arrangement	pc.	1	1			
UH1203	3	The parts, convolutions of the brain, citotarkhtectonic fields of head brain	pc.	1				1
UH1204	4	Diamond-shaped hole, projection of nucleus of cranial nerves and head brain	pc.	1				1
UH1205	5	Spinal cord and nerves	pc.	1	1			
UH1206	6	Structure of eye	pc.	1	1			
UH1207	7	Structure of ear	pc.	1	1			
UH1208	8	Digestion system	pc.	1				1
UH1209	9	Stomach, external and internal surface	pc.	1	1			
UH1210	10	Heart	pc.	1				1
UH1211	11	Kidney	pc.	1	1			
UH1212	12	Urinary system	pc.	1	1			
UH1213	13	Defects of development of urethra system	pc.	1				1
UH1214	14	Embryogenesis of urethra system	pc.	1				1
UH1215	15	Evolution of urino-genital system	pc.	1				1
UH1216	16	Liver	pc.	1	1			

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Code No.	No.	Name of equipment	Unit	Q'ty *	Q'ty with Priority **			
					A	B	C	D
UH1217	17	Liver organization	pc.	1	1			
UH1218	18	Inside surface of the small intestine and the large intestine	pc.	1	1			
UH1219	19	Intestine hair with vascular channel	pc.	1			1	
UH1220	20	Organs in torso	pc.	1	1			
UH1221	21	Male sexual organs	pc.	1	1			
UH1222	22	Female sexual organs	pc.	1	1			
UH1223	23	Head and neck muscles	pc.	1			1	
UH1224	24	Trunk muscles	pc.	1			1	
UH1225	25	Muscles of upper extremities	pc.	1			1	
UH1226	26	Muscles of lower extremities	pc.	1			1	
UH1227	27	Skin section	pc.	1	1			
UH1228	28	Lymphatic system	pc.	1	1			
UH1229	29	Embryo of vertebral	pc.	1			1	
UH1230	30	Embryo genesis of face	pc.	1			1	
UH1231	31	Topography of "acupuncture"	pc.	1			1	
UH1232	32	Topography of "acupuncture" of ear	pc.	1			1	
UH1300		The electrified models						
UH1301	1	Universal trainer	pc.	1	1			
UH1302	2	Digestion system	pc.	1			1	
UH1303	3	Heart	pc.	1	1			
UH1304	4	Head and neck muscles	pc.	1			1	
UH1305	5	Trunk muscles	pc.	1	1			
UH1306	6	Muscles of the upper extremities	pc.	1			1	
UH1307	7	Muscles of the lower extremities	pc.	1			1	
UH1400		The plastic bones of skeleton						
UH1401	1	Human skeleton (male and female)	pc.	1	1			
UH1402	2	Skull	pc.	1		1		
UH1403	3	Skull foundation	pc.	1			1	
UH1404	4	Skull mounted on set	pc.	1			1	
UH1405	5	Temporal bone	pc.	1			1	
UH1406	6	Frontal bone	pc.	1			1	
UH1407	7	Parietal bone	pc.	1			1	
UH1408	8	Occipital bone	pc.	1			1	
UH1409	9	Backbone	pc.	1			1	
UH1410	10	Upper jaw	pc.	1			1	
UH1411	11	Lower jaw	pc.	1			1	
UH1412	12	Wedge-shaped bone	pc.	1			1	
UH1413	13	Ethmoid bone	pc.	1			1	
UH1414	14	Acoustic bones	pc.	1			1	
UH1421	21	Skeleton of hand	pc.	1			1	
UH1422	22	Skeleton of upper extremities	pc.	1			1	
UH1423	23	Shin-bone	pc.	1			1	
UH1424	24	Fibula	pc.	1			1	
UH1425	25	Skeleton of the foot on springs	pc.	1			1	
UH1426	26	Skeleton of lower extremities	pc.	1			1	
UH1427	27	Spinal column	pc.	1			1	
UH1428	28	Vertebrae	pc.	1			1	
UH1500		Models on anatomy						
UH1501	1	Bronchial tubes	pc.	1		1		
UH1502	2	Mimic and masticator muscles	pc.	1			1	
UH1503	3	Funny-bone and muscles	pc.	1	1			
UH1504	4	Hand with adjoined muscles and nerves	pc.	1		1		
UH1505	5	Types of fracture of lower jaw	pc.	1			1	
UH1506	6	Eye-ball	pc.	1			1	
UH1507	7	Trunk	pc.	1		1		
UH1600		The sick nurse affair						
UH1601	1	Supersonic wave radiator	pc.	1	1			
UH1602	2	Haemoglobinometer	pcs	2	1			1
UH1603	3	Needles for conducting spinal cordpuncntions	pcs	2				1

Code No.	No.	Name of equipment	Unit	Q'ty *	Q'ty with Priority **			
					A	B	C	D
UH1604	4	Calorimeter (photoelectric)	pc.	1	1			
UH1605	5	Newborn nursery apparatus	pc.	1	1			
UH1606	6	Stretcher	pc.	1		1		
UH1607	7	UV radiator	pcs	2	1			1
UH1608	8	Sterilizer case	pcs	4	1			3
UH1609	9	Universal trainer	pc.	1			1	
UH1610	10	Trainer for muscular injection, venous injection	pcs	5	1			4
UH1611	11	Electro distiller	pc.	1	1			
UH2000		(Additional Equipment)						
UH2100		Trainers						
UH2101	1	Cardiology patient simulator	set	0	1			
UH2102	2	Multipurpose In-patient trainer	set	0			1	
UH2103	3	Suture practice trainer	set	0	1			
UH2104	4	Wearable breast examination model	set	0	1			
UH2105	5	Newborn bathing and nursery care trainer	set	0	1			
UH2106	6	Emergency firstaid airway suction trainer	set	0	1			
UH2107	7	Newborn vital signs demonstrator	set	0	1			
UH2108	8	Childbirth trainer	set	0	1			
UH2109	9	Eye examination trainer	set	0	1			
UH2110	10	Blood collection and injection trainer	set	0	1			
UH2200		Pharmacology						
UH2201	1	Assaying balance	pc	0	3			
UH2202	2	Water bath	pc	0	4			
UH2203	3	Electrical centrifuge	pc	0	4			
UH2204	4	Automatic water distiller	pc	0	4			
UH2205	5	Thermometer, range: -10 to +110 deg C	pc	0	32			
UH2206	6	Porcelain mortar with pestle, capacity 30 ml	pc	0		32		
UH2207	7	Porcelain mortar with pestle, capacity 50 ml	pc	0		32		
UH2208	8	Porcelain mortar with pestle, capacity 75 ml	pc	0		32		
UH2209	9	Porcelain mortar with pestle, capacity 110 ml	pc	0		32		
UH2210	10	Porcelain pestle	pc	0		32		
UH2211	11	Organic chemistry set	pc	0		32		
UH2212	12	Magnetic stirring device without heating	pc	0	10			
UH2213	13	Electronic scale	pc	0	4			
UH2214	14	pH-meter and milivoltmeter	pc	0	4			
UH2215	15	Pressure, volume and temperature apparatus	pc	0	4			
UH2216	16	Chemical testing equipment	pc	0	4			
UH2217	17	Biological microscope	pc	0	8			
UH2218	18	Top table autoclave	pc	0	1			
NA0000	3	Namangan Agro-economic PC						
NA1000	3.1	Veterinary						
NA1001	1	Autoclave	pc.	1	1			
NA1002	2	Apparatus for electric massage	pc.	1			1	
NA1003	3	Blood cell counter	pc.	1	1			
NA1004	4	Analytical balance	pc.	1	1			
NA1005	5	Binoculars	pc.	4		4		
NA1006	6	Big and small devices for feces of animals (set)	Pcs.	3		3		
NA1007	7	Big pathologoanatomic tool kit	Pcs.	1	1			
NA1008	8	Vaginal mirror for female animals	pc.	5		5		
NA1009	9	Endoscopes	Pcs.	1	1			
NA1010	10	Thermometers for animals	pc.	10		5	5	
NA1011	11	Histological preparation set	Pcs.	1			1	
NA1012	12	Drug shooting pistol for animals	pc.	1		1		
NA1013	13	Manometer for animals	pc.	5	5			
NA1014	14	Tool set for measuring animal size	Pcs.	1		1		
NA1015	15	Percussion hammer with pleximeter	Pcs.	2		2		
NA1016	16	No-needle injector	pc.	2	2			
NA1017	17	Urinary catheter in set	Pcs.	1			1	
NA1018	18	Milking catheter in set	Pcs.	1			1	
NA1019	19	Cage for laboratory animals	Pcs.	2	2			

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Code No.	No.	Name of equipment	Unit	Q'ty *	Q'ty with Priority **			
					A	B	C	D
NA1020	20	Magnetic probes	pc.	1	1			
NA1021	21	Biological microscope for students	pc.	13	13			
NA1022	22	Veterinary- obstetrical tool kit	Pcs.	1	1			
NA1023	23	Forceps for cutting hoofs	Pcs.	1		1		
NA1024	24	Hoof examination instrument	Pcs.	1		1		
NA1025	25	Tool kit, surgical large	Pcs.	1	1			
NA1026	26	Probe for nasopharynx (nose/throat)	pc.	1		1		
NA1027	27	Probe for oesophagus	pc.	1		1		
NA1028	28	Metal detector	pc.	1	1			
NA1029	29	Device for testing /assessing milk quality	pc.	1	1			
NA1030	30	Device for taking blood	pc.	1	1			
NA1031	31	Device for inhalation	pc.	1	1			
NA1032	32	Device for mastitis milk	pc.	1		1		
NA1033	33	Device for identifying trichinosis	pc.	1		1		
NA1034	34	Portable disinfections unit	pc.	1	1			
NA1035	35	Galvanized table necrotomy of big animals	pc.	1	1			
NA1036	36	Electronic balance	pc.	1	1			
NA1037	37	Alcohol meter	pc.	5	5			
NA1038	38	Universal bench for fixing animals	pc.	1	1			
NA1039	39	Stetho-phonendoscope	pc.	13	13			
NA1040	40	Table for instruments	pc.	1	1			
NA1041	41	Shelf for instruments	pc.	1	1			
NA1042	42	Surgery table for big animals with light stand	pc.	1	1			
NA1043	43	Surgery table for small animals with light stand	pc.	1	5			
NA1044	44	Water heating apparatus with thermostat	pc.	1	1			
NA1045	45	Trocar	pc.	4		1		3
NA1046	46	Refrigerator	pc.	1	1			
NA1047	47	Centrifuge	pc.	1	1			
NA1048	48	Syringe-injectors in set	Pcs.	5	5			
NA1049	49	Electrocardiograph	pc.	1	1			
NA1050	50	Freezer	pc.	1	1			
NA1051	51	Electric oven with time switch	pc.	1	1			
NA1052	52	Cow model for insemination	pc.	1	1			
NA1053	53	Model of cow skeleton	pc.	1	1			
NA1054	54	Model of cow internal organs, muscular system	pc.	1	1			
NA2000	3.2	Agronomy						
NA2001	1	Soil sieve	pcs.	1	1			
NA2002	2	Electronic balance	pc.	1	1			
NA2003	3	Analytical balance	pc.	1	1			
NA2004	4	Pot-soil heating apparatus	pc.	1	4			
NA2005	5	Desiccators	pc.	1	6			
NA2006	6	Cool incubator	pc.	1		1		
NA2007	7	Soil compaction testing apparatus	pc.	1	1			
NA2008	8	Soil auger	pc.	1	1			
NA2009	9	Soil color chart	pc.	1	1			
NA2010	10	Biological microscope	pc.	1	13			
NA2011	11	Titration device for chemical analysis of fruits and vegetables	pc.	1		1		
NA2012	12	Sulphate test strips	pc.	1				1
NA2013	13	Laboratory pH meter	pc.	1	1			
NA2014	14	Hydroponics complete analysis kit	pc.	1	1			
NA2015	15	Salinity meter	pc.	1	1			
NA2016	16	Soil moisture meter with soil moisture blocks	pcs.	1	1			
NA2017	17	Current flow meter	pc.	1	1			
NA2018	18	Soil Thermometer	pc.	2	4			
NA2019	19	Spectrophotometer	pc.	1		1		
NA2020	20	Chromatography	pc.	1	1			
NA2021	21	Colorimeter	pc.	1	1			
NA2022	22	Penetrometer	pc.	1	1			

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Code No.	No.	Name of equipment	Unit	Q'ty *	Q'ty with Priority **			
					A	B	C	D
AS0000	4	Asaka Agricultural PC						
AS1000	4.1	Operation and maintenance of agricultural machines and equipment						
AS1001	1	Tractor structure trainer	unit	1		1		
AS1002	2	Diesel engine trainer	unit	1		1		
AS1003	3	Model of fuel system	unit	1		1		
AS1004	4	Model of internal combustion engine, sectioned	unit	1		1		
AS1005	5	Model of 4-timely motor of internal combustion engine, sectioned	unit	1		1		
AS1006	6	Car structure trainer	unit	1		1		
AS1007	7	Model of fuel injection pump	unit	1		1		
AS1008	8	Model of carburetor	unit	1		1		
AS1009	9	Model of starting motor	unit	1		1		
AS1010	10	Model of transmission	unit	1		1		
AS1011	11	Model of clutch	unit	1		1		
AS1012	12	Model of rear axle, sectioned	unit	1		1		
AS1013	13	Working model of rear axle	unit	1		1		
AS1014	14	Four-wheel tractor	unit	1	1			
AS1015	15	Three-wheel tractor	unit	1		1		
AS1016	16	Cotton-picking machine	unit	1		1		
AS1017	17	Disk harrow	unit	1			1	
AS1018	18	Vegetable seeding-machine	unit	1		1		
AS1019	19	Spreader of mineral fertilizers	unit	1	1			
AS1020	20	Cultivator	unit	1	1			
AS1021	21	Subsoil cultivator	unit	1	1			
AS1022	22	Sprayer for pest control	unit	1		1		
AS1023	23	Potato digger	unit	1		1		
AS1024	24	Rotor mowing-machine	unit	1	1			
AS1025	25	Standard lathe	unit	1	1			
AS1026	26	Desk drilling lathe	unit	1		1		
AS1027	27	Arc welding apparatus	unit	1	1			
AS1028	28	Spot welding apparatus	unit	1	1			
AS1029	29	Balancing machine	unit	1		1		
AS1030	30	Gas welding apparatus	set	1	1			
AS1031	31	Torque wrench	pc.	1		1		
AS1032	32	Distilling apparatus	unit	1		1		
AS1033	33	Hydraulic stacker truck	unit	1	1			
AS1034	34	Full set of tools for metal soldering	set	1	1			
AS1035	35	Full complete of stamped tools	pc.	1				1
AS1036	36	Hydraulic jack	unit	1		1		
AS1037	37	Tire pressure measuring instrument	pc.	1		1		
AS1038	38	Compressor	unit	2	1	1		
AS1039	39	Set of tools for drivers and metalworkers	set	1				1
AS1040	40	Oil pump	pc.	1	1			
AS1041	41	Oil bucket pump	pc.	1	1			
AS1042	42	Riveter	pc.	1	1			
AS1043	43	Battery charger	pc.	1	1			
AS1044	44	Equipment for repair, assembling and disassembling of tires	unit	1	1			
AS1045	45	Hand mechanized tools set	pc.	2	2			
AS1046	46	Grease gun	pc.	1			1	
AS1047	47	Lubricator	pc.	1		1		
KO0000	5	Kokand PC of Human Services						
KO1000	5.1	Public catering						
KO1100	5.1.1	Catering department						
KO1101	1	Rotary griller	pc.	1	1			
KO1102	2	Bakery oven	pc.	1	1			
KO1103	3	Bakery fermentation box	pc.	1	1			
KO1104	4	Steamer	pcs	2	2			
KO1105	5	The coopers with capacity 20-50 liters	pc.	1			1	
KO1106	6	Siphon pump for oil	pc.	1	1			
KO1107	7	Mixer for forming	pc.	1	1			

Code No.	No.	Name of equipment	Unit	Qty *	Qty with Priority **			
					A	B	C	D
KO1108	8	Molder	pc.	1	1			
KO1109	9	Mixer for viscous materials	pc.	1	1			
KO1110	10	Tableware washing machine	pc.	1		1		
KO1111	11	Tableware washing machine	pc.	1			1	
KO1112	12	Tableware washing machine	pc.	1			1	
KO1113	13	Fryer	pcs	2	2			
KO1114	14	Juicer	pc.	1	1			
KO1115	15	Hot storage box	pc.	1	1			
KO1116	16	Fryer	pc.	1			1	
KO1117	17	Refrigerator	pc.	1	1			
KO1118	18	Range with oven	pc.	1	1			
KO1119	19	Grille	pc.	1	1			
KO1120	20	Bakery oven	pc.	1			1	
KO1121	21	Braising pan	pc.	1	1			
KO1122	22	Steamer	pc.	1	1			
KO1123	23	Range with oven	pc.	1			1	
KO1200	5.1.2	Teaching bread-roll department						
KO1201	1	Siphon pump for oil	pc.	1			1	
KO1202	2	Mixer for forming	pc.	1			1	
KO1203	3	Molder	pc.	1			1	
KO1204	4	Mixer for viscous materials	pc.	1			1	
KO1205	5	Dividing and making roll dough machine	pc.	1	1			
KO1206	6	Tableware washing machine	pc.	1			1	
KO1207	7	Hot storage box	pc.	1			1	
KO1208	8	Kneader for dough	pc.	1	1			
KO1209	9	Refrigerator	pc.	1			1	
KO1210	10	Reverse sheet	pc.	1	1			
KO1211	11	Range with oven	pc.	1			1	
KO2000	5.2	Repair and service of radio engineering and teleequipment						
KO2100	5.2.1	Study room of radio electric devices						
KO2101	1	Power supplies	pcs.	4	4			
KO2102	2	LF Signal Generator	pcs.	2	2			
KO2103	3	RF Signal Generator	pcs.	2	2			
KO2104	4	Volt meter	pcs.	20	20			
KO2105	5	Oscillograph	pcs.	10	10			
KO2106	6	Frequency Counter	pcs.	10	10			
KO2107	7	Laboratory stands " electronic amplifiers "	pcs.	2	2			
KO2108	8	Stand " Radio reception devices "	pcs.	2	2			
KO2109	9	Stand " Radio sending of the device "	pcs.	2	2			
KO2110	10	Stand " Intensifying devices "	pcs.	2			1	1
KO2111	11	Stand "Radio receivers"	pc.	1			1	
KO2112	12	Stand "Radio transmitters"	pc.	1			1	
KO2113	13	Stand " Pulse digital engineering "	pcs.	2	2			
KO2114	14	Stand " Kinds of modulation "	pc.	1			1	
KO2115	15	Stand " Signals of the image "	pc.	1			1	
KO2116	16	Stand " Amplifiers of a constant current "	pc.	1	1			
KO2117	17	Circuit of power supplies	pc.	1	1			
KO2118	18	Stand " Pulse digital engineering "	pc.	1			1	
KO2119	19	Basic circuits of radio-receivers	pc.	1			1	
KO2120	20	Breadboard models and circuits of various detectors	pc.	1			1	
KO2121	21	Circuits and diagrams of pulse modulation kinds	pc.	1			1	
KO2122	22	Circuits of high-frequency generators	pc.	1			1	
KO2123	23	Unwrapped circuits of tape recorders	pc.	1			1	
KO2124	24	Audio equipment	pc.	1			1	
KO2200	5.2.2	Study room of " Radio engineering and TV bases "						
KO2201	1	Laboratory assembly tables	pcs.	15			15	
KO2202	2	Codoscope	pc.	1			1	
KO2203	3	Unwrapped breadboard model of the TV set	pc.	1	2			
KO2204	4	Video recorder	pc.	1	2			

Code No.	No.	Name of equipment	Unit	Q'ty *	Q'ty with Priority **			
					A	B	C	D
KO2205	5	Cassette tape recorder	pc.	1	2			
KO2206	6	Amplifier (15 W)	pc.	1	2			
KO2207	7	Columns (15 W)	pcs.	2			1	1
KO2208	8	Radio-receiver (last model)	pc.	1			1	
KO2209	9	Blacking out curtains	pc.	1			1	
KO2210	10	Monitor	pc.	1			1	
KO2211	11	EPU (last model)	pc.	1			1	
KO2212	12	Video camera	pc.	1			1	
KO2213	13	TV tester	pc.	1	2			
KO2214	14	Radio tester	pc.	1			1	
KO2215	15	Oscillograph 20 MHz	pcs.	4	4			
KO2216	16	Oscillograph 100 MHz	pcs.	2	2			
KO2217	17	Digital generator	pcs.	3	3			
KO2218	18	Spectral multi meter	pcs.	4	4			
KO2219	19	Functional generator	pc.	1	1			
KO2220	20	Digital L, C, R measurement	pc.	1	1			
KO2221	21	Logic tester	pcs.	9			1	8
KO2222	22	Analog multi meter	pcs.	17	17			
KO2223	23	Power supply	pcs.	6	6			
KO2224	24	Measure of TV set signal level	pc.	1			1	
KO2225	25	Universal tester for diodes and transistors	pc.	1			1	
KO2226	26	Measurement of a signal level	pc.	1			1	
KO2227	27	Kinescope	pc.	1			1	
KO2228	28	Video eye	pc.	1	1			
KO2229	29	Metal case	pcs.	2			2	
KO2230	30	Wooden case	pcs.	2			2	
KO2231	31	Unwrapped breadboard model of the radio-receiver	pc.	1			1	
KO2232	32	Black-and-white TV set (last model)	pc.	1			1	
KO2233	33	Color TV set (last model)	pc.	1	1			
KO2234	34	Portable TV set (last model)	pc.	1			1	
KO2235	35	Lamp-transistor TV set	pc.	1			1	
KO2300	5.2.3	Workshop on teleradio apparatus repairs						
KO2301	1	Autotransformer	pcs	6			6	
KO2302	2	Drawing equipment	pc.	1			1	
KO2303	3	Radio repairs tool sets	pc.	1		13		
KO2304	4	Laboratorial table for mounting of electric machines	pc.	1			1	
KO2305	5	Oscillograph	pcs	6		2		4
KO2306	6	Electric soldering-iron	pcs	25		25		
KO2307	7	Distributive desk on demonstrate table	pc.	1			1	
KO2308	8	Welder apparatus of weld	pcs.	6		2	4	
KO2309	9	Drilling machine tool	pcs	2		2		
KO2310	10	Signal generator	pc.	1			1	
KO2311	11	Metal joiner's bench	pcs	2		2		
KO2312	12	Turn machine tool	pc.	1			1	
KO2313	13	Desk lathe vertical-drilling machine	pc.	1			1	
KO2314	14	Desk lathe	pc.	1			1	
KO2315	15	Universal lathe of heightened precision	pc.	1			1	
KO2316	16	Desk for mounting works	pc.	1			1	
KO2317	17	Desk for repair works	pc.	1			1	
KO2318	18	Desk with drawing equipment	pcs	13			13	
KO2319	19	Teleradio expert's table	pcs	13			13	
KO2320	20	Tester	pcs	13		13		
KO2321	21	Universal generator	pc.	1		1		
KO2322	22	Functional generator	pc.	1		1		
BU0000	6	Bukhara Construction and Municipal PC						
BU1000	6.1	Installation and repair of equipment for gas supply system						
BU1001	1	Pressure test apparatus	pc.	3	1		2	
BU1002	2	Gas meter installed in provider	pc.	2	2			
BU1003	3	Gas meter installed in house	pc.	2	2			

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Code No.	No.	Name of equipment	Unit	Q'ty *	Q'ty with Priority **			
					A	B	C	D
BU1004	4	Equipment for measuring combustion parameter	pc.	2	2			
BU1005	5	Hand-operated pipe threader	pc.	12	12			
BU1006	6	Electrical pipe threader	pc.	2	2			
BU1007	7	Hand-operated pipe bender	pc.	1	1			
BU1008	8	Electrical pipe bender	pc.	2	2			
BU1009	9	Power hacksaw	pc.	1	1			
BU1010	10	Reciprocating saw	pc.	4	4			
BU1011	11	Hand-operated pipe cutters	pc.	12	12			
BU1012	12	Electrical pipe cutters	pc.	2	2			
BU1013	13	Pipe vice with tripod	pc.	4	4			
BU1014	14	Flexible hose	pc.	1				1
BU1015	15	Hand-operated chain hoist	pc.	2	2			
BU1016	16	Flame propagation and stability experimental apparatus	pc.	1			1	
BU1017	17	Flame propagation and stability experimental apparatus	pc.	1				1
BU1018	18	Flame propagation and stability experimental apparatus	pc.	1				1
BU1019	19	Reynolds experimental apparatus	pc.	1	1			
BU1020	20	Reynolds experimental apparatus	pc.	1				1
BU1021	21	Resistant loss measuring apparatus	pc.	1	1			
BU1022	22	Resistant loss measuring apparatus	pc.	1				1
BU1023	23	Resistant loss measuring apparatus	pc.	1				1
BU2000	6.2	Installation of electric networks and equipment						
BU2001	1	Amperevolmeters (analog)	pcs	3	3			
BU2002	2	Displaced current ampere meters (digital)	pcs	3	3			
BU2003	3	Batteries and capacitors	pcs	5				5
BU2004	4	Sun batteries	pcs	5			5	
BU2005	5	Baths with electrode	pcs	3			3	
BU2006	6	Halfwired straightens	pcs	3			3	
BU2007	7	Universal straightens	sets	5			5	
BU2008	8	Laboratory sound generators	pcs	3			3	
BU2009	9	Generators	sets	5			5	
BU2010	10	Hairy hydrometers	pc.	1			1	
BU2011	11	Halfwire diodes on log	pcs	3			3	
BU2012	12	Indicators of induction magnet field	set	1			1	
BU2013	13	Variable transformer	pcs	3	3			
BU2014	14	Edrossel bobbins	pc.	1			1	
BU2015	15	AC current motor test bench	pc.	1	1			
BU2016	16	Electronic Network test bench	pc.	1	1			
BU2017	17	Clamp multimeter	sets	3			3	
BU2018	18	Completes of electromeasuring equipments for practice	sets	3	3			
BU2019	19	Prefabricated capacitors	set	1			1	
BU2020	20	Conical conductors	set	1			1	
BU2021	21	Shop of laboratory resistance	sets	3			3	
BU2022	22	Arch like magnets	set	1			1	
BU2023	23	Milliampere meter	pcs	3			3	
BU2024	24	Direct current machines test bench	set	1	1			
BU2025	25	Complete of capacitors	sets	3			3	
BU2026	26	Halfconductor completes	set	1			1	
BU2027	27	Completes of halfconductor equipment	set	1			1	
BU2028	28	Radiotechnical set	set	1			1	
BU2029	29	Sets of pherlopap and diamagnetics	set	1			1	
BU2030	30	Mega ohm meter	sets	3	3			
BU2031	31	Oscillographs	sets	3			3	
BU2032	32	Relay	sets	3	3			
BU2033	33	High voltage transformer	sets	3	3			
BU2034	34	Relay test bench	set	1	1			
BU2035	35	Instruments for demonstration rules of Lenz	set	1			1	
BU2036	36	Instruments for demonstration whirlwind currents and rules of action speed meter	set	1			1	
BU2037	37	Instruments for definition spectrums of electric fields	set	1			1	
BU2038	38	Instruments for definition length of sound wave	set	3			3	