

The list of major equipment and measuring instruments

№	Equipment type, manufacturing company	Description
<i>1</i>	<i>2</i>	<i>3</i>
1	Spectrophotometer UV–1800, «SHIMADZU», Japan	Spectrophotometric measurements in ultraviolet and visible spectra. Organic and nonorganic substances panoramic spectra recording
2	Autotitrator DL31, «Mettler-Toledo GmbH», Switzerland	Determination of water content in organic and nonorganic chemicals by Fischer titration
3	Motor- aspirated psychrometer M-34, Russia, Klin	Relative humidity measurement in laboratory rooms
4	Gas chromatograph «Chromos GC-1000» with flame-ionization and thermal conductivity detectors, «Chromos», Russia, Dzerzhinsk	GS-analyses of organic compounds (solutions, glycols, organic acids etc)
5	Moisture analyzer MS-70, «A&D Company Ltd.», Japan	Measuring moisture content in mineral fertilizers samples using infrared drying method
6	Aneroid barometer «BAMM-1», Hydrometpribor Safonovsky plant, Russia, Safonovo	Atmospheric pressure measurement in laboratory rooms
7	Electronic analytical balance AR 2140, «Ohaus», Switzerland	Measurement of the weight of analytical samples with accuracy up to 0,0001 g
8	Electronic analytical balance ALC–3100d2, «ACCULAB», USA	Measurement of the weight of technical samples with accuracy up to 0,01 g
9	Electronic analytical balance MW1200, Korea	Measurement of the weight of analytical samples with accuracy up to 0,0001g
10	Liquid control thermostat TJ-TS-01/26, «Laboratory Equipment and Instruments», Russia, Saint-Petersburg	Temperature control of liquid samples
12	Infra-red spectrophotometer «SPECORD M80», Germany	Identification and structural characterization of organic and inorganic materials using infrared spectroscopy
13	Liquid chromatograph «Chromos LC-301», «Chromos», Russia, Dzerzhinsk	Measuring water samples anions and cations by ion chromatography
14	Device for measuring strength of granular material MGS-1M, «UNICHIM», Russia, Ekaterinburg	Measuring strength of mineral fertilizer granules

15	Psychometric hydrometer VIT-2, «Steklopribor», Ukraine	Absolute\ relative humidity measuring
16	Aspirator APV-4, «Krasnogvardeets», Russia, Saint-Petersbourg	Gas sample collection
17	Eddy current defectoscopy device MIZ-28, Zetec	Technological equipment inspection using non-destructive testing methods
18	Eddy current defectoscopy device VD-70	
19	Eddy current defectoscopy device «Delta-VDT-6-1»	
20	Ultrasound defectoscopy device 2-140, «Skanner»	
21	Ultrasound thickness gauge TUZ-1,2, Bulat-2	
22	Lining cavities measuring device «Constanta K5»	
23	Multifunctional eddy- current device MVP-2	
24	Hardness tester MET-UDA	
25	X-ray fluorescence spectrometer «Alfa-2000»	
26	Videoendoscope	
27	Termo-pneumo- abrasive cleaning device	Heat exchanger tubes cleaning
28	HE tubes cleaning device	
29	HP unit for HE tubes cleaning (500 bar)	
30	Hydraulic jack for lining tightening	HP units lining repairing
31	Unfolding tool for lining (patented by NIIK)	
32	Man bucket with cable hoist	
33	Low-temperature freezer MDF U4086S, «SANYO», Japan	Frost resistance testing
34	Hot, cold & humidity climatic chamber Feutron, Germany	Environmental testing in hot, cold and humid conditions
35	Closed-cup flash-point determination device, «Chimautomatica», Russia, Belgorod	Determination of flash point in a closed cup
36	Glass units and windows blocks testing devices	Determination of thermal resistance, sound and light transmittance, waterproofness, air permeability, as well as unfailling performance of window fittings

Office equipment

№	Equipment
1	Coping (A0) equipment: KIP 3000
2	Wide format laser printer (A0) OCE 400, OCE 300
3	Color plotter (A0): HP 450C
4	Stand- alone scanner (A0): Contex SD 4410
5	Reprographic complex (A3): OCE 2070, OCE 2075