

Technical Specification Equipment

Name/Technical Specification	PICTURE
<p>ELEMENTARY ANALYZER ThermoFinnigan Flash EA 1112 <u>Technical characteristics</u></p> <ul style="list-style-type: none"> - simultaneous determination of C, H, S, N - thermal conductivity detector (TCD). - combustion/reduction oven; - quantity of sample for analysis : 0,01-500 mg (solid or liquid) - measurement range : 0,01% (100ppm) -100% - analysis time : 4-10 min - sulphur traces analyse - flunflotometric FPD detector (detection limit : min. 10 ppm (0,001% sulphur) - used gazes : oxygen, helium, air and hydrogen - auto-sampler MAS 200 (32 positions) - Eager 300 Software - micro-balance: capacity: 5g, resolution 1 µg, repeatable: < 1µg - power supply: 220/240, 50/60 Hz - computer + printer <p><u>Utilization</u> Determination of elemental analyses (C, H, N, S/O) from solids and liquids samples.</p> <p><u>ST Services</u> Elemental analyses from solids and liquids samples</p> <p><u>ST Services Quality</u> Working procedure: PIS – 34; PIS – 35 Work instruction: IU-137 Accredited method according SR EN ISO/CEI 17025/2005, date 06.10.2008, certificate no. LI 137 On recommendation site: www.eu-ets.ro for accreditation laboratories EN ISO 17025 to analysis on emission factor and oxidation factor, carbon contents, net of calorific power on solids and liquids samples in according of Ord 1175/31.10.2006 for Guide for monitoring and reporting greenhouse gas emissions - source RENAR</p> <p><u>The Network of known Customers</u> Development of services Electorcentrale Oradea, Sucursala ROMAG-TERMO Turnu Severin, Paroseni, SC CAST SA, Colterm Timisoara, Electorcentrale Brasov</p> <p>Services development Assay method performed with this equipment allow: the realization of new research projects; scientific communications; laboratory competitively increase and implicit the increase of client's number.</p> <p>Scientific communcations: Analytical method for low concentrations of sulphur in solid/liquid fuels: ECOIND conference, November 2009</p>	<div style="text-align: center;">  </div> <p style="text-align: center;">ELEMENTARY ANALYZER</p> <p>Presentation The equipment allow to determine simultaneous CHSN/O elements from solids and liquids samples of instantaneous dynamic combustion, followed by reduction, capture, cromatographic gas segregation and production detection with the help of thermal conductivity detector (TCD).</p>

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<p>CALORIMETER with BOMB CALORYMETER Parr 6200</p> <p><u>Technical characteristics</u></p> <ul style="list-style-type: none"> - measurement method: Izoperibolic - temperature resolution: 0.001 °C; - sample ignition: automatic - working pressure: 30 bars - automatic system with automatic output of temperature corections; - power supply 220/240V, 50/60Hz; - categories of materials: coal, coke, fuel oil, diesel, food, supplements, cereals, waste etc <p><u>Utilization</u></p> <p>Determination the heat of calorific power for solid and liquid fuels</p> <p><u>ST Services</u></p> <p>Determination the heat of calorific power for solid and liquid fuels</p> <p><u>ST Services Quality</u></p> <p>Working procedure: PÎS – 34; PIS – 35</p> <p>Work instruction : IU-138</p> <p>Accredited method according SR EN ISO/CEI 17025/2005, date 06.10.2008, certificate no. LI 137</p> <p>On recommendation site: www.eu-ets.ro for accreditation laboratorys EN ISO 17025 to analysis on emission factor and oxidation factor, carbon contents, net of calorific power on solids and liquids samples in according of Ord 1175/31.10.2006for Guide for monitoring and reporting greenhouse gas emissions - source RENAR</p> <p>Services development</p> <p>Assay method performed with this equipment allow: the realization of new research projects; scientific communications; laboratory competitively increase and implicit the increase of client's number.</p> <p><u>The Network of known Customers</u></p> <p>Development of services</p> <p>Electorcentrale Oradea, Sucursala ROMAG-TERMO Turnu Severin, Paroseni, SC CAST SA, Colterm Timisoara, Electorcentrale Brasov</p> <p>development of new research projects</p>	<div data-bbox="781 149 1555 653" data-label="Image"> </div> <p>CALORIMETER with BOMB CALORYMETER Parr 6200</p> <p>Presentation</p> <p>The bomb calorimeter is the most common device for measuring the heat of combustion or calorific value of material solid and liquid fuels</p> <p>The combustion process is initiated inside an atmosphere of oxygen in constant volume.</p>

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<p>LABORATORY SAMPLE GRINDING EQUIPMENT</p> <p><u>Technical characteristics</u></p> <p>Formed from next components:</p> <ul style="list-style-type: none"> • Laboratory mill (ultra-centrifugal) <ul style="list-style-type: none"> - sample maximum granulation = aprox.10 mm. - rotation speed = 5.000-18.000 rot/min; - material of grinding machine = stainless steel • Electronic balance <ul style="list-style-type: none"> - capacity : 15 Kg - resolution : 1 g - power supply : 220V/50 Hz <p><u>Utilization</u></p> <p>Preparation samples solids from analyzes for granulation materials</p> <p>Determination of moisture from solids/ liquid samples</p> <p><u>ST Services</u></p> <p>Determination from samples preparation and calculus the moisture content</p> <p><u>ST Services Quality</u></p> <p>Working procedure: PÎS – 34; PIS – 35</p> <p>Working instructions: IU - 139; IU – 140</p> <p>Accredited method according SR EN ISO/CEI 17025/2005, date 06.10.2008, certificate no. LI 137</p> <p>On recommendation site: www.eu-ets.ro for accreditation laboratorys EN ISO 17025 to analysis on emission factor and oxidation factor, carbon contents, net of calorific power on solids and liquids samples in according of Ord 1175/31.10.2006for Guide for monitoring and reporting greenhouse gas emissions - source</p> <p>RENAR</p> <p><u>The Network of known Customers</u></p> <p>Development of services</p> <p>Electorcentrale Oradea, Sucursala ROMAG-TERMO Turnu Severin, Paroseni, SC CAST SA, Colterm Timisoara, Electorcentrale Brasov</p> <p>development of new research projects</p>	<div data-bbox="818 149 1511 653" data-label="Image"> </div> <p data-bbox="943 657 1382 688" style="text-align: center;">Laboratory mill (ultra-centrifugal)</p> <div data-bbox="818 743 1511 1199" data-label="Image"> </div> <p data-bbox="1078 1203 1295 1234" style="text-align: center;">Electronic balance</p> <p>Presentation</p> <p>LABORATORY SAMPLE GRINDING EQUIPMENT</p> <p>The equipment is recommended for sample grinding materials with medium hardness, coal, coke or breakable, for paper fibrous samples, vegetables or plastic, coal/coke, combustible materiales.</p>

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<p>CALCINATION OVEN- NABERTHERM</p> <p><u>Technical characteristics</u></p> <ul style="list-style-type: none"> - double mantle for interior chamber thermic insulation, from the exterior of the oven; - short heating time; - low energy consumption; - maximal operatin temperature 1100 °C; - volume : 6 liters - power supply: 220V/1,8 KW <p><u>Utilization</u></p> <p>Determination of ash from solids samples: coal, coke, combustibile materials</p> <p><u>ST Services-</u> Determination of the ash</p> <p><u>ST Services Quality</u></p> <p>Working procedure: PÎS – 34; PIS – 35</p> <p>Working instructions: IU-165</p> <p>Accredited method according SR EN ISO/CEI 17025/2005, date 06.10.2008, certificate no. LI 137</p> <p>On recommendation site: www.eu-ets.ro for accreditation laboratorys EN ISO 17025 to analysis on emission factor and oxidation factor, carbon contents, net of calorific power on solids and liquids samples in according of Ord 1175/31.10.2006for Guide for monitoring and reporting greenhouse gas emissions - source RENAR</p> <p>Services development</p> <p>Assay method performed with this equipment allow: the realization of new research projects; scientific communications; laboratory competitively increase and implicit the increase of client’s number.</p> <p><u>The Network of known Customers</u></p> <p>Development of services</p> <p>Electorcentrale Oradea, Sucursala ROMAG-TERMO Turnu Severin, Paroseni, SC CAST SA, Colterm Timisoara, Electorcentrale Brasov</p>	<div data-bbox="802 149 1528 573" data-label="Image"> </div> <p style="text-align: center;">CALCINATION OVEN- NABERTHERM</p> <p>Presentation</p> <p>Calcination oven, integrally controlled by an electronic controller, with possibility to set the working temperature in accordance with your applications</p>

Name/Technical Specification

LABORATORY PERMEAMETER+ DRAWING KIT

Technical characteristics

- close system, water for test is re-circulated with submerge pump, 10W electrical power;
- power supply 220Volts/50Hz,
- biuretes to measure volume of water cross by sample;
- maximum capacity 5 probes simultaneously (stainless steel rings, Ø 53mm diameter);
- sampling kit with 24 stainless steel rings (Ø53mmx50mm, H=51mm; 100cc);
- sampling is made by percussion with 2 kg special hummer provided with metallic shock absorbers;
- extending parts ensure sampling up to 2 m depth.

Accessories: aluminum box for transportation of probes, carry case.

Utilization

Permeability test of soil probes indicate the measure witch in water and contaminants may cross over the permeable structures to underground waters.

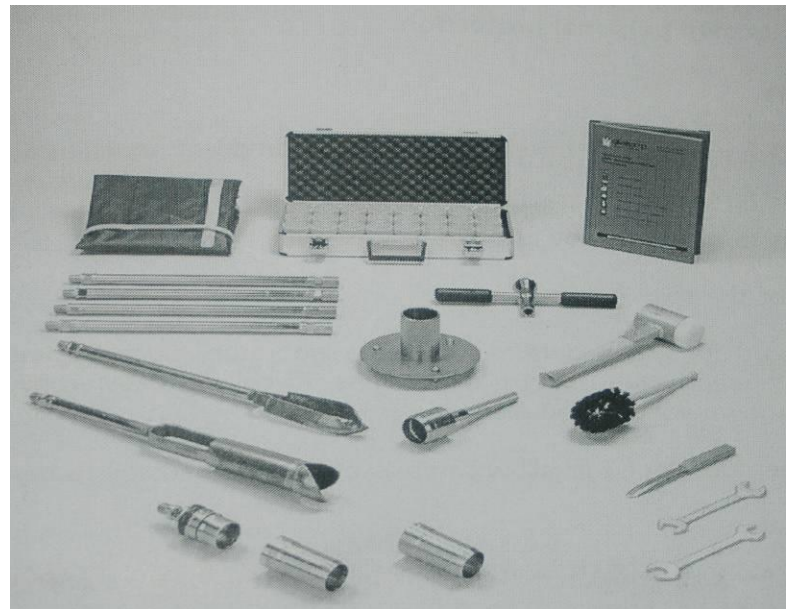
ST Services Quality

Working instructions: IU-166

PICTURE



Laboratory permeameter



Drawing Kit

LABORATORY PERMEAMETER+ DRAWING KIT

Presentation

The soil water permeameter is used for measuring the saturated permeability of undisturbed soil samples in sample rings. Is possible to test 5 probes simultaneously.

Name/Technical Specification	PICTURE
<p>Orbital SHAKER - model GFL 3017</p> <p><u>Technical characteristics</u></p> <ul style="list-style-type: none"> - shaking motion orbital; - circular movement amplitude: 30 mm - shaking speed 20-300 min⁻¹ - shaking time : 1 min – 99.59h or continuous - temperature range: 10°C – 50 °C; - Electrical Requirements: 220V, 50Hz - Spare parts and accessories: pivot shaft, holder for fixing testing plates on shaking trays, universal mount for fixing shaking objects between rubber coated bars, clamps for fixing flasks <p><u>Utilization</u></p> <p>Processing of different kinds of samples (soil, sediments, waste) for analytical examinations, like petroleum residues extraction and leaching tests (for sulfate, chloride, heavy metals etc.)</p> <p><u>ST Services Quality</u></p> <p>Working instructions: IU-155</p>	<div data-bbox="846 186 1507 596" data-label="Image"> </div> <p style="text-align: center;">Orbital SHAKER - model GFL 3017</p> <p>Presentation</p> <p>The equipment is destined for extraction of the solid samples (soil, sediment, waste), by suspension of the sample in different extracting solutions</p>

DESKTOP DISTILLED WATER APPARATUS ASSISTANT 225

Technical characteristics

- the generated water quality satisfies the requirements for most analytical purposes
- the equipment could be either be mounted on wall or placed directly on desktop; the apparatus could be easy be mounted or disassembled for cleaning;
- power consumption 2500 W at 220 V;
- produces up to 3,5 -4 L/h distilled water;
- necessary cooling water flow rate: 45L/h.

Utilization

The routine lab utilization for generating purified water for all laboratory purposes (lab instruments or glassware cleaning, making solutions for analytical methods.

ST Services Quality

Working instructions: IU-154



Desktop distilled water apparatus ASSISTANT 225

Presentation

The equipment destination is for providing necessary purified water for general laboratory use.

Name/Technical Specification

MICROBIOTEST EQUIPMENT FOR ALGAE TOXICITY ASSESSMENT

Technical characteristics

- **AQUA LITIC incubator**, serial number 13280, with adjustable temperature 2-40°C and internal illuminating lighting with 4 lamps each 8W – for the sample incubation in testing period;
- **JENWAY 630 spectrophotometer**, serial number 9932 (320 and 1000 nm), long cells with a 10 cm path-length – samples optical density measurements based on chlorophyll „a” fluorescence from green algae;
- **IKA Shaker**, KS 130 basic model– green algae culture maintenance and sample preparation.
- **IKA vortex**, GENIU 3 model - homogenization of green algae suspension and sample preparation.
- **GRANT MXB Ultrasonic bath**, serial number CHO741001 - sample preparation.
- **ALGALTOXKIT F™ kit** with micro algae immobilized in a special matrix, specific for surface water – *Selenastrum capricornutum* – contain biological material, nutritive media and accessories for a one use – this materials are use in toxicity assess of contaminated liquid samples on algae growth.

Usage: Testing system is used for contaminated water (wastewater, effluents, etc.) or for chemicals samples toxicity determination on green algae growth.

Assay method: OECD 201 („Algal growth inhibition test”, ISO / DIS 8692/2001 „Water Quality - Freshwater algal growth inhibition test with unicellular green algae”

Quality services ST

Work instruction: IU-43

ST Services:

Direct beneficiaries:

LI 2289/2007 „ Study of ecological risk assessment on Olt river due of wastewaters evacuations resulted from manufactured process of SC Uzinele Sodice Govora-Ciech Chemical Group SA” - beneficiary SC UZINELE SODICE GOVORA-CIECH CHEMICAL GROUP SA;
CD 1641/2008 - „Algae growth inhibition test for an effluent” – beneficiary SC SMITHFIELD PROCESARE SRL

Scientifically research contracts

The equipment will be used in aquatic toxicity assessment tests unrolled in National Research Program NUCLEU, but also for other national and international programs where we will apply in future.

Know beneficiaries : SC UZINELE SODICE GOVORA-CIECH CHEMICAL GROUP SA, SC SMITHFIELD PROCESARE SRL,

Services development

Assay method performed with this equipment allow: the realization of new research projects in ecotoxicology area; scientific communications; laboratory competitively increase on the marker of aquatic toxicity tests and implicit the increase of client’s number.

PICTURE



MICROBIOTEST EQUIPMENT FOR ALGAE TOXICITY ASSESSMENT


Presentation


Testing system is done from several component devices (incubator, spectrophotometer, shaker, vortex and ultrasonic bath) and an assay kit. Devices have the role to assure the sample incubation at constant temperature and illumination, measurements of assay results and sample preparation through homogenization with help of vortex and ultrasonic bath.


Name/Technical Specification	PICTURE
<p>MICROSCOPE WITH EPI-FLORESCENCE –OPTIKA N400 FL <u>Technical characteristics:</u></p> <ul style="list-style-type: none"> - digital triocular microscope, with video camera incorporate; - biocular tub inclined at 30°; oculars with field of 20 mm, magnityng of 10x and individual control possibility; - achromate objective of 4x, 10x, 40x, 80x and 100x (normal and with immersion); - illuminating devices with control of light intensity possibility; - macro visa and micro visa graduate system, scheduled with blockage system; - interface for computer connect; - video camera 2 Megapixel, maxim resolution: 1600x1200; - software for video camera; - BENQ Laptop - joy book A52/C41. <p><u>Utilization</u> Identifications of the microorganism’s species from active sludge biocenose.</p> <p>ST services: <u>Direct beneficiaries:</u> CD 1641/2008 - „Algae growth inhibition test for an effluent” – beneficiary SC SMITHFIELD PROCESARE SRL</p> <p><u>Scientifically research contracts</u> The equipment will be used in aquatic toxicity assessment tests unrolled in National Research Program NUCLEU, but also for other national and international programs where we will apply in future.</p> <p>Quality services ST Work procedures: PIS 19 si PIS 20 Work instruction: IU -94</p> <p><u>Know beneficiaries :</u> SC SMITHFIELD PROCESARE SRL, DFR SYSTEMS</p> <p>Services development Assay method performed with this equipment allow: the realization of new research projects in ecotoxicology area; scientific communications; laboratory competitively increase on the marker of aquatic toxicity tests and implicit the increase of client’s number.</p>	<div data-bbox="815 151 1536 1318" data-label="Image"> </div> <p>MICROSCOPE WITH EPI- FLORESCENCE – OPTIKA N400 FL Presentation: Optic equipment for active sludge microorganism’s identification through epi –fluorescence use.</p>

Name/Technical Specification	PICTURE
<p>INDUCTIVELY COUPLED PLASMA SPECTROMETER ICP-EOS</p> <p><u>Technical characteristics</u></p> <ul style="list-style-type: none"> - measure range: 165 – 780 nm; - ability to read radial plasma and also axial plasma in all the range and within same method; - software ICP-EOS WinLab 32; - automatic open of plasma and automatic control of shear gas, nitrogen and argon; - cooling close system for ICP; - purging system for gases; - air compressor; - power generator RF; - gases installation for nitrogen and argon (pipes, controlling devices, gas panels, pipe fittings, cage for cylinders); - flow Injection Hydride Analysis System FIAS 400; - S 10 Autosampler (210 positions) <p><u>Utilization</u></p> <p>Determination of 33 metals from environmental samples (drinking water, groundwater, surface water, wastewater, soil, sediment, sludge, waste).</p> <p><u>ST Services</u></p> <ul style="list-style-type: none"> - Determinations of dangerous substances (Ni, Cd, Pb, Hg) with low detection limits, according with limits impose by the legislation; - Decreases of detection limits comparing with AAS methods and UV-VIS spectrometry (Al, As, Ag, Ba, Co, Cr, Se, Ti, V). - Extension of the services through development of new methods for the parameters: Bi, B, Be, Li, Sb, Sn; <p><u>ST Services Quality</u></p> <p>Testing Procedure: PIS-06</p> <p>Work instruction : IU-143</p> <p>Accredited method according SR EN ISO/CEI 17025/2005, date 06.10.2008, certificate no. LI 137;</p> <p><u>The Network of known Customers</u></p> <p>Development of services for more than 100 new and existing Customers, like: RMD Consult, Electrocentrale Bucuresti, Petrom Arpechim, Remat, Smithfield, Romball, Aquaserv Tg. Mures, etc.</p> <p>The Testing Methods using the ICP-EOS technique allow:</p> <ul style="list-style-type: none"> - development of new research projects regarding the monitoring of drinking water quality from the distribution systems of Bucharest, Timisoara, Tg. Mures, and also the monitoring of influents / effluents from drinking water treatment plants of Buzau and Focsani; - scientific communications: <i>testing methods using FIAS coupled to ICP-EOS</i> – Chisinau, May 2009; Bucharest, ECOIND conference, November 2009; <i>monitoring of drinking water quality</i>- Greece, October 2009, COST conference; Bucharest, ECOIND conference, November 2009. 	<div data-bbox="782 149 1568 808" data-label="Image"> </div> <p style="text-align: center;">Inductively Coupled Plasma Optical Emission Spectrometer ICP-EOS type Optima 5300 DV Perkin Elmer</p> <p>Presentation</p> <p>The equipment allow to determine simultaneous metallic elements from liquid acid solutions obtained from environment samples.</p> <p>The spectrometer has: two detectors (UV and VIS); ability to read axial plasma and also radial plasma; FIAS (Flow Injection Hydride Analysis System) and autosampler.</p>

Name/Technical Specification	PICTURE
<p>LABORATORY FUME HOODS</p> <p><u>Technical characteristics</u></p> <ul style="list-style-type: none"> - metal structure with antiacid properties; - work surface made by antiacid ceramics; - flexible and mobile window with antifall device; - tap water and sink; - tap gas; - electric box with 4 socket; - exhaust cooler. <p><u>Utilization</u></p> <p>A properly used and properly functioning fume hood exhausts hazardous gases, dusts, mists and vapors from a confined location and helps to protect workers from inhalation exposure. Ensures optimum working condition. Is used for mineralizations with mixtures of acids and for extractions in organic solvents.</p> <p><u>ST Services Quality</u></p> <p>Work instruction : IU-153</p>	<div data-bbox="818 176 1533 709" data-label="Image"> </div> <p style="text-align: center;">LABORATORY FUME HOODS</p> <p>Presentation</p> <p>Laboratory fume hoods serve to control exposure to toxic, offensive or flammable vapor, gases and aerosols. Fume hoods are the first step in ensuring control in the laboratory. Is a type of local exhaust ventilation system (engineering control). A typical fume hood is a cabinet with a moveable front window made out of safety glass.</p>


Name/Technical Specification	PICTURE
<p>WASHING MACHINE FOR LABORATORY GLASWERE</p> <p>Technical characteristics</p> <ul style="list-style-type: none"> • Washing camera with 2 level; 2 arms for pulverization; • Device for injection at charging with water ; • Water dedurisation system Monobloc; • 4 filters systems with filter, pre-filter, filter for glass spell, filter micro-fine; • Drying unity / radial ventilator for air drying ; • Electric systems for door closing to assure the operator and drying process security; • Frontal charging machine • Exterior carcass: non-oxidable; • low noise level and superheating protection ; • water recirculation pump; • water temperature : $\leq 95^{\circ} \text{C}$ • digital display with temperature, wash / drying time and errors; • preset ate programs for usual wash and free programs; • supply at: 220 - 380V • Dosing system, scheduled with dispenser and dosing pumps for washing agents (detergents, neutralization agent, special additives, disinfecting solutions and rinse). <p>Utilization</p> <p>Glassware waching (test tube, Petri dishes, Elermayer flsks, graduate pipets, cylinders, etc.) used for microbiological determinations.</p> <p>ST services:</p> <p>This equipment is current used in Microbiology Laboratory for all bacteriological analysis performed for direct beneficiaries and for research projects.</p> <p>Quality services ST</p> <p>Work procedure: PIS 18 – “Bacteriological analysis”</p> <p>Work instruction: IU -148</p> <p>The methods are accredited in conformity with SR EN ISO/CEI – Accreditation Certificate LI 137/06.10.2008</p> <p>Know beneficiaries: PUROLITE, ECOLAB, TC AFFAIRES, INDCARF, CAROLI, URSUS, VITAL GAZ, MUSETESCU, DRUKFARBEN, ETC.</p> <p>Services development</p> <p>The equipment allows the good deployment of glassware igienienisation activity from the Microbiology Laboratory. According with this we consider that the use of equipment will increase the quality of microbiological assay, increase the number of analysis performed per day and reduce the work time.</p>	 <p>WASHING MACHINE FOR LABORATORY GLASWERE</p> <p>Presentation</p> <p>Automate machine for laboratory glassware washing with rapid system drying and vapors condenser incorporate.</p>

Name/Technical Specification	PICTURE
<p>MEMBRANES FILTRATION SYSTEM FOR LABORATORY ANALYSIS (MILLIPORE)</p> <ul style="list-style-type: none"> - filter devices with 1-3 steel places with common adaptor at a vacuum pump; - 500 ml rustles funnel with adequate volumes 100 ml, 250 ml and 500 ml, vacuum pump, vacuum tubs, Duran glass dish for filtrate collection, hydrophobic filter for pump protection on vacuum range. - easy close and open system for filtrate membranes fixing. <p>Usage The equipment is used in suspension matter determination but also for preparation of some liquid samples in view of testing.</p> <p>ST services: The equipment is used for all beneficiaries that require the suspension matter analysis from waste water. In research projects this equipment is used for physico-chemicals analyses and for preparation of the sample in view of aquatic toxicity testing for turbidity removal.</p> <p>Quality services ST Work procedure: PIS-01 Determination of some indicators from water, soil an sludge through gravimetric technique Work instruction: IU -102 The method are accredited in conformity with SR EN ISO/CEI – Accreditation Certificate LI 137/06.10.2008</p> <p>Know beneficiaries: BULDING SUPPORT SERVICES, SCH GRAND, DFR SYSTEMS, MUSETESCU, ECEROM, ROMBIZ, AVIGAL, CFR GALATI, JUARTEXT, TERA COMPANY, TITAN, TEXTILCO PROD.</p> <p>Services development The use of equipment will allow :</p> <ul style="list-style-type: none"> - increase of analysis quality, a big number of chemical analyses that can be performed and of course the increase of clients number - realization of new research projects and scientific communication. 	 <p style="text-align: center;">MEMBRANES FILTRATION SYSTEM FOR LABORATORY ANALYSIS (MILLIPORE)</p> <p>Presentation: Pressure pump with continuous air flux that allow liquids filtration.</p>

Name/Technical Specification	PICTURE
<p align="center">MULTI-PARAMETER WITH SPECIAL ELECTRODES , INOLAB MULTI 740</p> <p><u>Technical characteristics:</u></p> <ul style="list-style-type: none"> - special electrodes for oxygen, pH and conductivity, resistant to oil or special solutions; - professional bag and charger accessories with batteries or adaptor. - maintenance kit. <p><u>Utilization</u></p> <p>pH, oxygen and conductivity control parameters determinations from oil and special solutions used in ecotoxicity biotests (biodegradability and aquatic toxicity tests)</p> <p>ST services:</p> <p><u>Direct beneficiaries:</u></p> <ul style="list-style-type: none"> - LI 2289/2007 „ Study of ecological risk assessment on Olt river due of wastewaters evacuations resulted from manufactured process of SC Uzinele Sodice Govora-Ciech Chemical Group SA” - beneficiary SC UZINELE SODICE GOVORA-CIECH CHEMICAL GROUP SA; - CD 1791/2008 „Toxicity tests on aquatic organisms / active sludge microorganisms and biodegradability test for an electroisolate oil ERGON HYVOLTI (TR30.01) – beneficiary PRISTA OIL ROAMANIA SA <p><u>Scientifically research contracts</u></p> <ul style="list-style-type: none"> - PROJECT 1084 – PN II, INOVATION Program – MODUL I -“Ecological products for metal processing obtained from regenerative base materials” - beneficiary SC ICERP SA PLOIESTI - The equipment will be used in aquatic toxicity assessment tests unrolled in National Research Program NUCLEU, but also for other national and international programs where we will apply in future. <p>Quality services ST</p> <p>Work procedures: PIS 19 - « Biodegradability determination of soluble organic compounds »; PIS 20 – « Toxic potential determination of chemicals contaminants (specific) and residual waters on aquatic organisms and active sludge microorganisms »</p> <p>Work instruction: IU-90</p> <p>The methods are accredited in conformity with SR EN ISO/CEI – Accreditation Certificate LI 137/06.10.2008</p> <p><u>Know beneficiaries :</u> INCD ECOIND, SC ICERP PLOIESTI, PRISTA OIL, BULDING SUPPORT SERVICES, SCH GRAND, DFR SYSTEMS</p> <p>Services development</p> <p>Assay method performed with this equipment allow: the realization of new research projects in ecotoxicology area; scientific communications; laboratory competitively increase on the marker of aquatic toxicity tests and implicit the increase of client’s number.</p>	 <p align="center">MULTI-PARAMETER WITH SPECIAL ELECTRODES , INOLAB MULTI 740</p> <p>Presentation</p> <p>The measure equipment is scheduled with special electrodes for Oxygen, pH and conductivity, resistant to oil, basic and acid solutions for biodegradability and toxicity assessment.</p>

Name/Technical Specification	PICTURE
<p>HAND-OPERATED BAILER BORING AUGER SET EQUIPMENT</p> <p><i>Technical characteristics</i></p> <ul style="list-style-type: none"> - prelevarea probelor de sol pe adancime pana la maxim 15 m, iar in cazul interceptarii panzei de apa freatica se poate preleva apa. - compus dintr-o serie de burghie de diferite tipuri care pot asigura forajul in soluri si strate litologice dintre cele mai diferite. - livrat standard cu toate accesoriile necesare executiei unui foraj echipat pentru diametrul 140 mm. - 100 de repere stocate in cutii de transport din otel: - burghie de foraj de diferite tipuri; extensii; - tuburi de asigurare a forajului cu diametrul de 160 mm; conectori; - tuburi din plastic ABS pentru asigurarea forajului de diametru 160 mm si cu conectori de legatura metalici; tripod, etc <p><i>Utilization</i></p> <p>Manual drilling ensure sampling the probes of soil/ sub-soil up to 10 m depth. The probes dont have any quality transfomation because manual augering is made in dryed conditions without boring liquids. At water table level is posible sampling of underground water and equip the borehole as well and monitoring</p> <p><i>ST Services Quality</i> Working instructions: IU-167</p>	<div data-bbox="802 186 1479 753" data-label="Image"> </div> <p>HAND-OPERATED BAILER BORING AUGER SET EQUIPMENT</p> <p>Presentation</p> <p>Equipment is used to drill in heterogenic soils up to 10 m depth and is possible to equip as well.</p>

Name/Technical Specification	PICTURE
<p>DUST PRELEVATION SYSTEM PM 10 PAUL GOTHE</p> <p><u>Technical characteristics</u></p> <p>Components:</p> <ul style="list-style-type: none"> - Extraction Probe - Transition Cone - Impactor Casing - Impactor Stages - Backup filter <p>Compatible with Paul Gothe prelevation system</p> <p>Capability for fractional prelevation of dust PM 10 and PM 2,5</p> <p><u>Utilization</u></p> <p>Determination of fractions PM 10 and PM 2,5 from emissions of total dust</p> <p><u>ST Services</u></p> <p><u>Answers</u> necessitysdemands by legislation European operative „ National Guide of emissions of poluants for application OM MAPM 1144/2002</p> <p><u>ST Services Quality</u></p> <p>Working instructions: IU-156</p> <p><u>The Network of known Customers</u></p> <p>Development of services for new and existing customers: SC CARMEUSE SA</p> <p>The Testing Methods studied on this equipament allow:</p> <ul style="list-style-type: none"> - development of new research projects - scientific communications: “Analitical method for selenium determination from stationary sources by atomoc absorbtion spectrometry “ECOIND Conference, November 2009 	<div data-bbox="732 186 1549 821" data-label="Image"> </div> <p style="text-align: center;">DUST PRELEVATION SYSTEM PM 10 PAUL GOTHE</p> <p>Presentation</p> <p>Accessory utilised from separation fractions PM 10 and PM 2,5 from emissions of total dust by rezultation from the stationary sources</p>

Name/Technical Specification	PICTURE
<p>CLIMATICAL CHAMBER FOR FILTER CONDITIONING PM 10, PM 2,5 <u>Technical characteristics</u> - Temperature control in the field 10-90 °C; - Humidity control 10-90% RH; - Interior volume 100 l ; - connection kit to water supply</p> <p><u>Utilization</u> Conditionation of filters for determination PM 10 and PM 2,5</p> <p><u>ST Services</u> Realization of treatment pre and post exposition of filters for sampling of dust PM 10 and PM 2,5</p> <p><u>ST Services Quality</u> Working instructions: IU-157</p> <p><u>The Network of known Customers</u> Development of services for new and existing customers: - ELECTROCENTRALE Bucuresti; Star Foods, Dayan Ecotehnic SRL; Scania SRL; Linde Gaze Romania; Sucursala de Exploatare Miniera Rm Valcea</p> <p>The Testing Methods studied on this equipment allow: - development of new research projects - research projects in PN II: “ Impact assessment of pollution with PM 2,5 breathable dusts from urban areas with intense road traffic on the inhabitants health status” - scientific communications: -utilization for : “Considerations concerning impact assessment of pollution with PM 2,5 matters”- ECOIND Conference, November 2009</p>	 <p>CLIMATICAL CHAMBER FOR FILTER CONDITIONING PM 10, PM 2,5</p> <p>Presentation Echipamentes permite maintenance of filters at 20°C temperature and 50% humidation before and after sampling</p>

ECD DETECTOR FOR CROMATOGRAF-GAZ

Technical characteristics

Compatible with Gazcromatograf CP 3800;

- Source of nichel 63;
- Liniar domain 102-104;
- Detection limit : 0,1-1,0

Utilization

Determination of halogen compounds from emissions and imissions

ST Services

- Determination of traces of halogen compounds from emissions and imissions
- Incease of sensibilation of determination methodes

ST Services Quality

Working procedure: PIS-29

Working instructions: IU-96

Accredited method according SR EN ISO/CEI 17025/2005, date 06.10.2008, certificate no. LI 137;

The Network of known Customers

Development of services for new and existing customers: SC PUROLITE SA; SC ASSA ABLOY ROMANIA SRL; SC VRANCART SA

- development of new research projects in PN II

- research projects - Nucleu Program:

“Reasearch for elaboration of determination methods of deangerous organic substances/prioritar from emissions by fix souraces with new determination methods of PAH, phenols and halogenated compounds in concordance with legislation operative”


- scientific communications: - ECOIND Conference, November 2009




ECD DETECTOR FOR CROMATOGRAF-GAZ

Presentation

Accessory permits determination of organic halogenated compounds with a big sensibilation in conphiguration with GC-FID


Name/Technical Specification	PICTURE
<p>GAS CHROMATOGRAPH WITH NITROGEN PHOSPHOR DETECTOR (NPD), FLAME PHOTOMETER DETECTOR (FPD) AND ELECTRON CAPTURE DETECTOR (ECD)</p> <p><u>Technical characteristics</u></p> <p>Oven:</p> <ul style="list-style-type: none"> - max.temperature: 450°C - heating rate 0,1 -120°C/min <p>Inlet:</p> <ul style="list-style-type: none"> - split/splitless - programming temperature: 50-400°C - electronic pressure control <p>NP Detector:</p> <ul style="list-style-type: none"> - longer lifetime for beads (2x) <p>FP Detector</p> <ul style="list-style-type: none"> - sensibility for sulfur: 3,6 pg/sec - selectivity for sulfur $1 \times 10^6 \text{gS/gC}$ - sensibility for phosphor: 60fg/sec - selectivity for phosphor $1 \times 10^6 \text{gF/gC}$ <p>Detector ECD</p> <ul style="list-style-type: none"> - sensibility: 6 fg/mL lindan - liniarity: 5×10^4 <p>Autosampler: GC liquid injection</p> <p>Software: CHEMSTATION - Agilent</p> <p><u>Utilization</u></p> <p>Toxic and dangerous compounds determination from environmental samples (drinking water, ground water, surface water, waste water, soil, sediment, sludge and waste)</p> <p><u>ST Services</u></p> <ul style="list-style-type: none"> - Determination of prioritary dangerous compounds (organochloride, organopghosporous and triazine pesticide, PCB, VOC,etc) at low detection limits, according to the limits imposed by the legislation - The selectivity increase for certain organic compounds classes containing heteroatoms like: nitrogen, phosphor and sulfur. - New services for heteroatoms containind compounds analysis like sulfur containing compunds in oil and derivatives <p><u>ST Services Quality</u></p> <p>Working procedure:PIS -09; PIS-11</p> <p>Working instructions: IU-169</p> <p>Accreditated methods accordind to SR EN ISO 17025 -2005 Standard (LI 137/06.10.2008)</p> <p><u>The Network of known Customers</u></p> <p>Development of services for new and existing customers, like:Auditeco, RMD Consult, Electrocentrale Bucuresti, Petrom Arpechim, Smithfield, etc.</p> <ul style="list-style-type: none"> -to finish some projects related to the analysis of toxic compounds containing heteroatoms, like organophosphorous pesticides;and will allow: - to develop new research projects related to the introduction of new techniques and methods used in environmental forensic, to monitorize new heteroatoms compounds classes like sulfur containing compounds <p>scientific communications</p>	 <p>GAS CHROMATOGRAPH WITH NITROGEN PHOSPHOR DETECTOR (NPD), FLAME PHOTOMETER DETECTOR (FPD) AND ELECTRON CAPTURE DETECTOR (ECD)</p> <p>Presentation</p> <p>The equipment allows the selective determination of volatile and semivolatile organic compounds by High Resolution Gas Chromatography (HRGC).</p> <p>The specific detectors: NPD, FPD and ECD allow a selective and sensitive analysis of organic compounds containing nitrogen, phosphor, sulfur and halogen atoms from environment samples.</p>

Name/Technical Specification	PICTURE
<p>PORTABLE PUMPS FOR GAZ PRELEVATION</p> <p><u>Technical characteristics</u></p> <ul style="list-style-type: none"> - prelevation pump with double membrane for emissions and imissions, monitored by microprocessor; - sequencial prelevation on 2 channels; - possibility to set the prelevation flow speed for every channel; - flow meters: 0,2-5 l/min ; 2-40 l/min ; - meter for measuring the volume of dried air; - temperature and pressure measure at the meter , - automatic stop in vaccum situation; - energy supply : 220 – 240 V/50Hz - protection against erasing data from memory in case of energy supplay fail, reset to the operating conditions after the supply reconnection. - indicators for environment temperature and gaz volume <p><u>Utilization</u></p> <p>Samplig for emissions and imissions air sample</p> <p><u>ST Services</u></p> <p>Performant equipments for samplig methods in concordance operative standardes</p> <p><u>ST Services Quality</u></p> <p>Working procedure: PIS 12; PIS 13</p> <p>Working instructions: IU-158</p> <p>Accreditated methods accordind to SR EN ISO 17025 - 2005 Standard (LI 137/06.10.2008)</p> <p><u>The Network of known Customers</u></p> <p>Development of services for new and existing customers: SC Coca Cola HBC Romania SRL; Expur Slobozia; Expur Urziceni, SC URSUS BREWERIES SA</p> <p>The Testing Methods studied on this equipament allow:</p> <ul style="list-style-type: none"> - development of new research projects - research projects in PN II: “ Management system of resources for monitoring and environment evaluation of risk for prevetion negative effects and administration of crisis” - scientific communications: -utilization for : “Considerations concerning impact assessment of pollution with PM 2,5 maters”- ECOIND Conference, November 2009 	 <p>PORTABLE PUMPS FOR GAZ PRELEVATION</p> <p>Presentation</p> <p>Pompe with double membrane who permits samplig (emissions and imissions) air sample with 2 canals for debits 0,2-40 l/min</p>


Name/Technical Specification	PICTURE
<p>PORTABLE IZOCINETIC PUMP FOR DUST PRELEVATION</p> <p><u>Technical characteristics</u></p> <ul style="list-style-type: none"> -high efficiency and rezistence rotative vacuum pump with flow valve control. - performances: 8,8 m³/h la -400 mbar, 220V, 2,2A, 50Hz - portable system for gaz volume measure prelevated with gazes dehumidify system, with water segregater , gaz-meter (0-6 m³/h) with vaccum control and thermometer (0-6 m³/h), with all the necessary tubes and conectors. - electrical suction heated tube, with integrated thermocouple Ø 25 mm. Probe for tubes 10 x 1 mm interchanging, material : stainless steel, length: 200 mm - instrument measuring the negative and positive diferential pressure , suprapressure and vaccum – for differential pressure, measured value to be presented in mbars on the lcd instrument screen; - Instrument for temperature measuring for NiCr-Ni Sensor, field: -50 - +1000°C, with batery, calibration protocol and protection system; - equipement for humidity measure with protection system. <p><u>Utilization</u></p> <p>Sampling dust for determinations of dust and metals.</p> <p><u>ST Services</u></p> <p>Asiguration of performance conditions imposed by legislation operative in isocinetiks conditions for poluants emited in atmosphere</p> <p><u>ST Services Quality</u></p> <p>Working procedure: PIS -14</p> <p>Working instructions: IU-98</p> <p>Accredited method in concordance with SR EN ISO/CEI 17025:2005, Accredited certificate LI 137/06.10.2008</p> <p><u>The Network of known Customers</u></p> <p>Development of services SC ELECTROCENTRALE Bucuresti; SC COLTERM SA; Expur Slobozia; Expur Urziceni</p> <p><u>Test Methods elaborated</u> this equipment permitted:</p> <ul style="list-style-type: none"> -realization new research project <p>Nucleu Programs: Researchs for elaboration new performance methods for determination volatile metals (selenium, telur, and besmuth) from emission fix souraces in concordance with operative legislation</p> <p>-scientific communications: Analitical method for selenium determination from stationary sources by atomoc absorbtion spectrometry “-ECOIND Conference, November 2009</p>	<div data-bbox="766 149 1520 1003" data-label="Image"> </div> <p style="text-align: center;">PORTABLE IZOCINETIC PUMP FOR DUST PRELEVATION</p> <p>Presentation</p> <p>Equipment is for izocinetic sampling of emissions of dust with debit cca 6 m³/h from fix sources.</p>

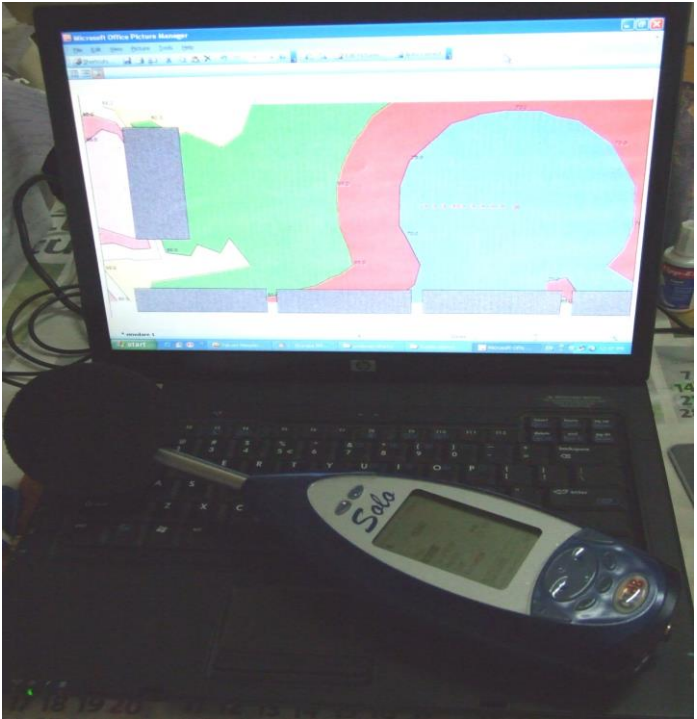
Name/Technical Specification	PICTURE
<p>DISTILLATOR FOR 1ST QUALITY WATER</p> <p><u>Technical characteristics</u></p> <ul style="list-style-type: none"> - configuration for 1st quality water producing. Conform with cu SR ISO 3696 - Conductivity of distilled water 0,01 mS/m (la 25°C); - Absorbancy at 254nm -0,001 absorbtion unit; - silicon – 0,01 mg/l - aplicability field : HPLC, IC, GC - incorporated UV lamp for TOC value obtaining < 5 ppb; - conductivity water indicated in $\mu\text{S/cm}$, rezistivity in $\text{M}\Omega\text{-cm}$ and temperature in °C; - automatic stop agains the energy supply faillure or water pressure variations; - flow speed 1,8 l/m - water storage tank–30L - feed water pressure 0-5 bars; - power supply: 220v/50Hz; <p><u>Utilization</u></p> <p>Preparation of 1st quality water conf. SR ISO 3696</p> <p><u>ST Services Quality</u></p> <p>Working instructions: IU-159</p>	<div data-bbox="781 149 1503 865" data-label="Image"> </div> <p style="text-align: center;">DISTILLATOR FOR 1ST QUALITY WATER</p> <p>Presentation</p> <p>Equipment is utilised for prepares 1st quality water with 0,1 mS/m conductivity and TOC , 5 ppb. Tis water in used for determination of traces compounds by technique HPLC, IC, GC</p>


Name/Technical Specification	PICTURE
<p>MICROWAVES DIGESTOR</p> <p><u>Technical characteristics</u></p> <ul style="list-style-type: none"> - laboratory machinery for orizontal charging; - precint, coated with fluoropolimer and provided with in/out ports; - microwave heating system , power: 1600 W; - continuous power adjustement with selection of 4 minimum fields of power : 300, 600, 900, 1200; -temperature monitoring and control system; - temperature senzor with certificate on the minimum field 0 – 300 °C; - pressure senzor with certificate on the minimum field 0 – 1500 psi; - merry-round for minimum 12 bottels; - software for data acquisition and control <p><u>Utilization</u></p> <p>Digestion simultane for 12 filtres at controled presure and temperature.</p> <p><u>ST Services</u></p> <p>Grade growth of recovery for metals an filters</p> <p><u>ST Services Quality</u></p> <p>Working instructions: IU-160</p> <p><u>The Network of known Customers</u></p> <p>Development of services new and existing customers: SC PRO AIR CLEAN SA SC ASSA ABLOY ROMANIA SRL</p> <p><u>Test Methods elaborated</u> this equipment permitted:</p> <ul style="list-style-type: none"> -the realization of research in PN II projects: “Impact assessment of pollution with PM 2,5 breathable dusts from urban areas with intense road traffic on the inhabitants health status” - the realization of research in Nucleu Program projects: „Researchs for elaboration new performance methods for determination volatile metals (selenium, telur, and besmuth) from emission fix souraces in concordance with operative legislation” <p>scientific communications: Analitycal method for selenium determination from stationary sources by atomoc absorbtion spectrometry “-ECOIND Conference, November 2009</p>	<div data-bbox="808 149 1552 926" data-label="Image"> </div> <p style="text-align: center;">MICROWAVES DIGESTOR</p> <p>Presentation</p> <p>Equipment permits fast digestion and efficiency of filters for the determination of metals concentration in emissions and imissions dust.</p>

Name/Technical Specification	PICTURE
<p>AUTOMATIC GAZES ANALIZOR FOR NO₂+CO</p> <p><u>Technical characteristics</u></p> <p><i>For NO₂</i> Determination of nitrate oxides using chemiluminiscence; - selectable measuring fields between 0-20 ppm - results expressible in ppm and in mg/ m³ ; - answer time : min 30s; - detection limit : 0.4 ppb;</p> <p><i>For CO</i> Determination of carbon oxide using infrared undispersive spectropie; - selectable measuring fields between 0-200 ppm - result indicator in ppm and mg/m³; - response time : min 30s; - detection limit : 50 ppb; - internal pump with an minimum prelevation flow speed by 0.3l/min; - possibility tu programme the mediation time from 1 min to 24h; - gaz bottels necessary for analizors function; - operating temperature from 5 to 40⁰C; - power supply : 220 v, 50Hz;</p> <p><u>Utilization</u> The simultaneons determination of concentrations NO₂ and CO in air (emissions and imissions)</p> <p><u>ST Services</u> Monitoring air quality for determination of NO₂ in concordance with standardes SR EN 14792:2006 Monitoring air quality for determination of CO in concordance with standardes SR EN 15058 :2006</p> <p><u>ST Services Quality</u> Working instructions: IU-161</p> <p><u>The Network of known Customers</u> Development of services new customers: <i>for monitoring air quality</i> (emissions and imissions) <u>Test Methods elaborated</u> this equipment permitted: - <i>the realization of research in PN II</i> projects: “Impact assessment of pollution with PM 2,5 breathable dustes from urban areas with intense road traffic on the inhabitants health status” “Technology for valorification solid agriculturd and forestry biomass for abtion clean enrgy and reduction of gaz emissions with effect greenhouse”</p>	 <p>AUTOMATIC GAZES ANALIZOR FOR NO₂+CO</p> <p><u>Presentation</u> Equipment permits automatic analyze for NO₂ and CO concentrations in air (emissions and imissions)</p>

Name/Technical Specification	PICTURE
<p>AUTOMATIC GAZES ANALIZOR FOR SO2</p> <p><u>Technical characteristics</u> Determination of SO₂ using chemiluminiscence; Automatic analizor using fluorescence; -selectable measuring fields between 0-10ppm; - results expressible in ppm and mg/m³; - response time : programable; - detection time : 1ppb; - deviation zero: smaller then 0.5 ppb/24h; -internal pump who shood assure an prelevation debit of 0.3l/min; - data storage and discarge in PC; - operating temperature 5-40⁰C; -power supply: 220v-50Hz</p> <p><u>Utilization</u> Determination of concentrations SO₂ in air (emissions and imissions)</p> <p><u>ST Services</u> Monitoring air quality for determination of SO₂ in concordance with standardes ISO 10498:2005 and EN 14212:2005</p> <p><u>ST Services Quality</u> Working instructions: IU-162</p> <p><u>The Network of known Customers</u> Development of services new customers: <i>for monitoring air quality</i> (emissions and imissions) <u>Test Methods elaborated</u> this equipment permitted: - <i>the realization of research in PN II</i> projects: “Impact assessment of pollution with PM 2,5 breathable dustes from urban areas with intense road traffic on the inhabitants health status” “Technology for valorification solid agriculturd and forestry biomass for abtion clean enrgy and reduction of gaz emissions with effect greenhouse”</p>	<div data-bbox="906 149 1414 800" data-label="Image"> </div> <p>AUTOMATIC GAZES ANALIZOR FOR SO2</p> <p>Presentation Equipment permits automatic analyze with great performance for SO₂ and concentrations in emissions air and ambiantial air (imissions)</p>

Name/Tehcnical Specification	PICTURE
<p>AUTOMATIC GAZES ANALIZOR FOR TOC</p> <p><u>Technical characteristics</u></p> <ul style="list-style-type: none"> - detection method with flame ionization, concordant with standards: SR EN 12619:2002; SR EN 13526 :2001; - total measure field : 0-100 000 ppm; with selectable subdomains; - indicator for measured values in mg C/m³ ; - indicator for tested gaz pressure; - indicator for combustion room temperature and for the heated line; - heated prelevation line with 10 meter length and anti-rolling device; - gaz bottels; - power supply: 230 V/50Hz; <p><u>Utilization</u></p> <p>Determination of TOC in emissions resuled in different tehcnological processes from industry (dye works, incieraton, coinceration) in in concordance with: HG 699/2003 competed and modification by HG 1902/2004; HG 128 competed by HG 268/2005</p> <p><u>ST Services</u></p> <p>Monitoring of line at fix sources for TOC emissions By application opeevative standards: SR EN 12619:2002; SR EN 13526 :2001</p> <p><u>ST Services Quality</u></p> <p>Working procedure: PIS-30 Working instructions: IU-163 Acredited method in concordance with SR EN ISO/CEI 17025:2005, Acredited certificate LI 137/06.10.2008</p> <p><u>The Network of known Customers</u></p> <p>Development of services new and existing customers: Expur Urzicein; TAKATA, CRONO-SPAN; PRO-AIR CLEANN</p> <p><u>Test Methods elaborated</u> this equipment permitted: - <i>the realization of research in PN II</i> projects: “Technology for valorification solid agriculturd and forestry biomass for abtion clean enrgy and reduction of gaz emissions with effect greenhouse”</p>	 <p style="text-align: center;">AUTOMATIC GAZES ANALIZOR FOR TOC</p> <p>Presentation Equipment permits automatic analyze for TOC in gaz emissions, at fix sources.</p>

Name/Technical Specification	PICTURE
<p>ACOUSTICAL SOFTWARE FOR NOISE MAPS</p> <p><u>Technical characteristics</u></p> <ul style="list-style-type: none"> - acoustical maps generator for industrial areas; - high calculation speed; - advanced selection of noise sources and optimization of figure tolerances; - performing the tasks from Directive (2002/49/EC)- HG 321/2005 according with the provisional ghides; - results that shod be presented LAeq, LDEN; - software package compatible with Windows, intuitive grafic interface, friendly, Harmonise- general method provisional Laeq; -Interface Multi-Document wich allows fast configuring and comparisons, screenplay and action plans simulations; - fast and performance models D set-up for the calculation of noise spread; -mathematical modell components : road, rail-way, liniar sources etc. - entry data in model : GIS in format SHP, DXF sau TXT;import files tipe BMP; <p>figures results presenting the different categories of sources</p> <p><u>Utilization</u> Realization of noise map</p> <p><u>ST Services</u> Research studies of industrial noise impact and methods for reduction</p> <p><u>ST Services Quality</u> Working instructions: IU-168</p> <p><u>The Network of known Customers</u> Sevices development studies of impact and studies of bylance</p> <p><u>Test Methods elaborated</u> this equipment permitted:</p> <ul style="list-style-type: none"> - <i>the realization of research in Nucleu</i> projects: “ Researches about the posibilities for application CE directives for reduction level of industrial noise” scientific communications: “Mathematical modelation of acoustical wavers from surround and industrial souraces” - ECOIND Conference, November 2009 	 <p style="text-align: center;">ACOUSTICAL SOFTWARE FOR NOISE MAPS</p> <p>Presentation The SOFT permits the realization of noise maps and reduction of industrial noise</p>

Name/Technical Specification	PICTURE
<p>FAST EVAPORATION/CONCENTRATION SYSTEM</p> <p><u>Technical characteristics</u></p> <ul style="list-style-type: none"> -solvent evaporation by nitrogen introduction in spiral on the sample surface, tangential with interior sample tank; - 6 positions for simultaneous evaporation with 50 ml tubes (including 6 tubes); - optic sensor for accoustical signal and evaporation stop at an final volume of 1 ml with functioning from the chamber temperature to 60 °C; -possibiliti to modify the volume <p><u>Utilization</u></p> <p>Preparation of tests for gaz_chromatography</p> <p><u>ST Services Quality</u></p> <p>Working instructions: IU-164</p> <p><u>The Network of known Customers</u></p> <ul style="list-style-type: none"> - scientific communications- utilization for : ”Analytical method for selenium determination from stationary sources by atomic absorbtion spectrometry”- ECOIND Conference, November 2009 	 <p>FAST EVAPORATION/CONCENTRATION SYSTEM</p> <p>Presentation</p> <p>Performantce equipment permits concentration of dangerous substances extacts for analyze gaze chromatography or liquid chromatography</p>