NÁRODNÍ AKREDITAČNÍ ORGÁN

EA MLA Signatory
Český institut pro akreditaci, o.p.s.
Olšanská 54/3, 130 00 Praha 3

issues

according to section 16 of Act No. 22/1997 Coll., on technical requirements for products, as amended

CERTIFICATE OF ACCREDITATION

No. 344/2021

INECO průmyslová ekologie s.r.o.
with registered office náměstí Republiky 2996, 544 01 Dvůr Králové nad Labem, Company Registration No. 27487270

to the Testing Laboratory No. **1350**
INECO průmyslová ekologie s. r. o. Testing Laboratory

Scope of accreditation:

Tests of physical and chemical quantities in working and non-working environment - measurement of noise and vibration, dustiness, chemical substances, microclimate and emission; analyses of drinking, surface, waste, process and bathing water to the extent as specified in the appendix to this Certificate.

This Certificate of Accreditation is a proof of Accreditation issued on the basis of assessment of fulfillment of the accreditation criteria in accordance with

ČSN EN ISO/IEC 17025:2018

In its activities performed within the scope and for the period of validity of this Certificate, the Body is entitled to refer to this Certificate, provided that the accreditation is not suspended and the Body meets the specified accreditation requirements in accordance with the relevant regulations applicable to the activity of an accredited Conformity Assessment Body.

This Certificate of Accreditation replaces, to the full extent, Certificate No.: 361/2020 of 2. 6. 2020, or any administrative acts building upon it.

The Certificate of Accreditation is valid until: **2. 6. 2025**

Prague: 24. 6. 2021

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P.P.
Pavel Nosek
Director of the Department
of Testing and Calibration Laboratories
Czech Accreditation Institute
Public Service Company

The Appendix is an integral part of
Certificate of Accreditation No. 344/2021 of 24/06/2021

Accredited entity according to ČSN EN ISO/IEC 17025:2018:

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INECO průmyslová ekologie s.r.o. Testing Laboratory
náměstí Republiky 2996, 544 01 Dvůr Králové nad Labem

Tests:

Ordinal number[1]	Test procedure/ method name	Test procedure/ method identification[2]	Tested object
1*	Measurement of noise in a working environment	SOP/PP-15 (ČSN EN ISO 9612, MoH CR Bulletin, Part 4/2013- Guideline for the measurement and evaluation of noise and vibrations at workplace and vibrations in protected indoor areas of buildings)	Working environment
2*	Measurement of environmental noise	SOP/PP-13 (ČSN ISO 1996-1, ČSN ISO 1996-2 MoH CR Bulletin, Part 11/2017 – Guideline for the measurement and evaluation of noise in non-workplace environment)	Non-working environment
3*	Measurement of vibration	SOP/PP-18 (ČSN EN ISO 5349-1, ČSN EN ISO 5349-2, ČSN ISO 2631-1, MoH CR Bulletin, Part 4/2013- Guideline for the measurement and evaluation of noise and vibrations at workplace and vibrations in protected indoor areas of buildings)	Working environment
4*	Measurement of sound power of noise sources	SOP/PP-16 (ČSN EN ISO 3746, ČSN EN ISO 3744)	Noise source
5	Determination of particulate matter (dust) in air by gravimetry	SOP/PP-11 (GR No. 361/2007 Coll.)	Working environment, non-working environment
6	Determination of aerosol of mineral oils (by gravimetry)	SOP/PP-12 (Medical Devices and HVAC Equipment No. 5/1972)	Working environment, non-working environment
7*	Measurement of microclimatic conditions (resulting temperature of a spherical thermometer, air temperature, relative air humidity, air flow velocity, operating temperature)	SOP/PP-20 (ČSN EN ISO 7726, MoH CR Bulletin, Part 8/2013 – Measurement of microclimatic parameters of workplace and building interior environment)	Working environment, non-working environment

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Ordinal number[1]	Test procedure/ method name	Test procedure/ method identification[2]	Tested object
8	Determination of pH by potentiometry	SOP/V-01 (ČSN ISO 10523)	Drinking, surface, waste, bathing water
9*	Determination of redox potential (ORP)	SOP/V-61 (ČSN 75 7367)	Bathing water
10	Determination of total, dissolved, suspended solids and DIS by gravimetry	SOP/V-03 (ČSN EN 872, ČSN 75 7346)	Drinking, surface, waste water
11	Determination of chemical oxygen demand with dichromate (COD_{Cr}) by titration	SOP/V-04 (ČSN ISO 6060)	Surface, waste water
12	Determination of biochemical oxygen demand (BOD_5) by amperometry	SOP/V-05 (ČSN EN ISO 5815-1)	Surface, waste water
13	Determination of phosphate and total phosphorus by spectrophotometry	SOP/V-08 (ČSN EN ISO 6878)	Drinking, surface, waste water
14	Determination of nitrate by spectrophotometry	SOP/V-09 (ČSN ISO 7890-3)	Drinking, surface, waste, bathing water
15	Determination of nitrite by spectrophotometry	SOP/V-10 (ČSN EN 26777)	Drinking, surface, waste water
16	Determination of ammonium and ammonia by spectrophotometry	SOP/V-11a (ČSN ISO 7150-1)	Drinking, surface, bathing water
17	Determination of ammonium and ammonia by titration	SOP/V-11b (ČSN ISO 5664)	Drinking, surface, waste water, bathing water
18*	Determination of free, fixed and total chlorine using HACH commercial analytical set	SOP/V-15 (ČSN ISO 7393-2, HACH manual)	Drinking water, bathing water
19*	Determination of gas moisture (condensation method, adsorption method, capacitance detector, by psychrometry)	SOP/E-05 (ČSN EN 14790, ČSN ISO 4677-1:1998)	Emissions
20*	Determination of velocity and volume flow rate	SOP/E-14 (ČSN ISO 10780, ČSN EN ISO 16911-1)	Emissions

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Ordinal number[1]	Test procedure/ method name	Test procedure/ method identification[2]	Tested object
21	Determination of the mass concentration of solid pollutants by gravimetry	SOP/E-01 (ČSN EN 13284-1, ČSN ISO 9096:1998)	Emissions
22*	Determination of total mass concentration of organic compounds expressed as total organic carbon (TOC) by automatic analyzers (FID)	SOP/E-06 (ČSN EN 12619)	Emissions
23*	Determination of the mass concentration of gaseous pollutants (NOx) by automatic analyzers (chemiluminescence)	SOP/E-07 (ČSN ISO 10849, ČSN EN 14792)	Emissions
24*	Determination of the mass concentration of gaseous pollutants (CO, NO, NO_2, SO_2) and determination of the volume concentration of gaseous pollutants (CO2) by automated analyzers (non-dispersive infrared spectroscopy)	SOP/E-07 (ČSN EN 15058, ČSN ISO 7935, ČSN ISO 10849, ISO 12039:2019)	Emissions
25*	Determination of volume concentration of oxygen (O_2) by automatic analyzer (paramagnetic method)	SOP/E-16 (ČSN EN 14789)	Emissions
26	Determination of the mass concentration of inorganic compounds[4] by calculation from measured values[3]	SOP/PP-14 (Gov. Reg. No. 361/2007 Coll.)	Woking air, indoor air
27	Determination of the mass concentration of organic compounds[5] by calculation from measured values[3]	SOP/PP-19 (Government Regulation No. 361/2007 Coll., ČSN EN ISO16017-1)	Woking air, indoor air
28	Determination of the mass concentration of volatile organic compounds (VOC) by calculation from measured values[3]	SOP/E-03 (ČSN P CEN/TS 13649)	Emissions
29	Determination of the mass concentration of gases and vapours by absorption into liquid and calculation from measured values[3]	SOP/E-04 (ČSN EN 1911, ČSN 83 4751-1:1988, ČSN 83 4752-1, ČSN 83 4728,	Emissions

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Ordinal number[1]	Test procedure/ method name	Test procedure/ method identification[2]	Tested object
	(H^+, CN, phenols, HBr, HCl, Cl^-HF, F^-, NH_3, H_2S)	ČSN 83 4752-1:1990, ČSN P CEN/TS 17340 ČSN 83 4728-1, ČSN EN ISO 21877, ČSN 83 4712-1)	
30	Determination of mass concentration of metals by calculation from measured values[3] (As, Cd, Be, Cr, Co, Ni, Tl, Se, Te, Sb, Sn, Mn, Cu, Pb, V, Zn, Al, Hg Cr^{VI+})	SOP/E-12 (ČSN EN 14385, ČSN EN 13211, EPA method 0061)	Emissions

[1] Asterisk at the ordinal number identifies the tests, which the Laboratory is qualified to carry out outside the permanent laboratory premises.

[2] If the document identifying the test procedure is dated, only these specific procedures are used. If the document identifying the test procedure is not dated, the latest edition of the specified procedure is used (including any changes).

[3] The laboratory subcontracts the determination of analytes to an external supplier

[4] mineral acids, cyanides, ammonia, phosphates, metals: Cr(total), Cr(VI), Nl, Cu, Mn, Ni, Zn, Pb, Cd, Sn, Al, Mo, Ag, Se, Mo, Pt, Co, Ti (according to Annex No. 2 to Government Decree No. 361/2007 Coll.)

[5] aliphatic, aromatic and halogenated hydrocarbons (according to Annex No. 2 to Government Decree No. 361/2007 Coll.)

Sampling:

Ordinal number	Sampling procedure name	Sampling procedure identification[1]	Sampled object
1	Sampling of air into absorption solutions for the determination of concentration of chemical substances	SOP/PP-14 (Gov. Reg. No. 361/2007 Coll.)	Working air and indoor air
2	Sampling of air on filters for the determination of concentration of aerosols	SOP/PP-11, SOP/PP-12 (GR No. 361/2007 Coll.)	Working air, indoor air and outdoor air
3	Waste water sampling By both manual and automatic method	SOP/V-54 (ČSN ISO 5667-10, ČSN ISO 5667-14, ČSN EN ISO 5667-3, ČSN EN ISO 5667-1)	Waste water

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Ordinal number	Sampling procedure name	Sampling procedure identification[1]	Sampled object
4	Drinking water sampling	SOP/V-55 (ČSN ISO 5667-5, ČSN ISO 5667- 14, ČSN EN ISO 5667-3, ČSN EN ISO 5667-1, ČSN EN ISO 19458)	Drinking water
5	Bathing water sampling	SOP/V-56 (ČSN ISO 5667-4, ČSN ISO 5667-6, ČSN ISO 5667-14, ČSN EN ISO 5667-3, ČSN EN ISO 5667-1, ČSN EN ISO 19458), MoH Regulation No. 238/2011 Coll.)	Bathing water
6	Surface water sampling	SOP/V-60 (ČSN ISO 5667-4, ČSN ISO 5667-6, ČSN ISO 5667-14, ČSN EN ISO 5667-3, ČSN EN ISO 5667-1, ČSN EN ISO 19458)	Surface water
7	Air sampling on a solid sorbent for the determination of volatile organic compounds	SOP/PP-19 (Government Regulation No. 361/2007 Coll., ČSN EN ISO 16017-1)	Working air and indoor air
8	Sampling of volatile organic compounds (VOC) by catching on a solid sorbent	SOP/E-03 (ČSN P CEN/TS 13649)	Emissions
9	Gas and vapour sampling by absorption into liquid (HCl, Cl^-, HF, F^-,NH_3, H^+, CN^-, phenols, HBr)	SOP/E-04 (ČSN EN 1911, ČSN 83 4752-2:1990, ČSN P CEN/TS 17340, ČSN 83 4751-2:1988, ČSN 83 4728, ČSN EN ISO 21877, ČSN 83 4712-2)	Emissions
10	Taking samples for the determination of metals (As, Cd, Be, Cr, Co, Ni, Tl, Se, Te, Sb, Sn, Mn, Cu, Pb, V,	SOP/E-12 (ČSN EN 14385, ČSN EN 13211,	Emissions

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Ordinal number	Sampling procedure name	Sampling procedure identification[1]	Sampled object
	Zn, Al, Hg, Cr^{VI+}) – isokinetic sampling with both manual and automatic isokinetic control and absorption into liquid	EPA method 0061)	
11	Sampling of solid pollutants (isokinetic sampling with manual and automatic isokinetic control)	SOP/E-01 (ČSN EN 13284-1, ČSN ISO 9096:1998)	Emissions

[1] If the document identifying the sampling procedure is dated, only these specific procedures are used. If the document identifying the sampling procedure is not dated, the latest edition of the specified procedure is used (including any changes).

Explanations and abbreviations:

SOP – standard operating procedure

HP – hygienic regulations

NDIR – Nondispersive Infrared Spectrometry

FID – Flame Ionization Detection

VOC – Volatile Organic Compounds

TOC – Total Organic Carbon

TZL – Particulate Pollutants

Emissions – Waste gas containing pollutants released in a controlled manner or leaking into atmosphere from sources of pollution.

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