EA MLA Signatory
Český institut pro akreditaci, o.p.s.
(Czech Accreditation Institute)
Hájkova 2747/22, Žižkov, 130 00 Praha 3

issues

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

CERTIFICATE OF ACCREDITATION

No. **648/2025**

Technické služby ochrany ovzduší Praha a.s.
with registered office Urbánkova 3367, 143 00 Praha 4
Company Registration No. 25079140

for the Testing Laboratory No. **1461**
Testing Laboratory for the Measurement of Pollutants

Scope of accreditation:

Measurement of pollutants and odorous substances in emissions and immissions, including sampling and analysis, quality assurance of automated measuring systems 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 abovementioned Accredited Body is entitled to refer to this Certificate, provided that the accreditation is not suspended and the Accredited 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.: 90/2025 of 28/02/2025, and/or any administrative acts building upon it.

The Certificate of Accreditation is valid until: **23/06/2028**

Prague: 09/12/2025

Český institut pro akreditaci, o.p.s. «CAI»

Signed in the Czech original:
Jan Velíšek on 09/12/2025

Jan Velíšek
Director of the Department
of Testing and Calibration Laboratories
Czech Accreditation Institute

This translation of the Czech original has been issued by: Eliška Frycová

The Appendix is an integral part of
Certificate of Accreditation No. 648/2025 of 09/12/2025

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

Technické služby ochrany ovzduší Praha a.s.,
CAB number 1461, Testing Laboratory for the Measurement of Pollutants
Železárenská 1958, 272 01 Kladno 1

Tests:

Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
1	Determination of mass concentration of solid pollutants in emissions, including PM10 and PM 2.5 fractions, by gravimetry	IP 100 (ISO 9096; ČSN EN 13284-1; ČSN EN ISO 23210)	Emission	-
2*	Determination of mass concentration of gaseous components (NO, NO_2, SO_2, CO_2, CO) by NDIR method	IP 200a (ISO 10396; ČSN EN 15259; ČSN ISO 10849; ČSN ISO 7935; ČSN P CEN/TS 17021; ČSN EN 15058; ČSN P CEN/TS 17405; ISO 11042-1)	Emissions	-
3*	Determination of mass concentration of gaseous components (NO and NO_2) by chemiluminescence method	IP 200b (ISO 10396; ČSN EN 15259; ČSN EN 14792; ISO 11042-1)	Emissions	-
4*	Determination of mass concentration of gaseous components (TOC) by FID method	IP 200c (ISO 10396; ČSN EN 15259; ČSN EN 12619; ISO 11042-1)	Emissions	-
5*	Determination of volume concentration of gaseous components (O_2) by paramagnetic method	IP 200d (ISO 10396; ČSN EN 15259; ČSN EN 14789; ISO 11042-1)	Emissions	-

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Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
6*	Determination of mass and volume concentration of gaseous components (NO,NO_2,CO,O_2) by electrochemical method	IP 200e (ČSN EN 50379-1; ČSN EN 50379-2; ISO 11042-1)	Emissions	-
7*	Determination of the velocity and volume flow rate	IP 300 (ČSN EN 15259; ČSN EN ISO 16911-1)	Emissions	-
8	Determination of volume flowrate by balance calculation from element analysis and amount of burned fuel	IP 300 - 02 (OTN ŽP 2008)	Emissions	-
9*	Determination of water vapour in ducts by condensation-absorption, condensation and electrical capacitance method	IP 400 (ČSN EN 15259; ČSN EN 14790)	Emissions	-
10	Determination of the mass concentration of gases and vapours (SO_2, HCl, HF, Ammonia, Sulfane, Cl_2, HCN, total reduced sulphur - TRS) taken into liquid by the calculation from measured values[4]	IP 568a (ČSN EN 14791; ČSN ISO 7934; ČSN EN 1911; ČSN P CEN/TS 17340; ISO 15713; ČSN EN ISO 21877; ČSN 83 4712-1; ČSN 83 4751-3; EPA OTM-29; EPA Method 16A)	Emissions	-

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Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
11	Determination of the mass concentration of metals (As, Cd, Cr, Co, Cu, Mn, Ni, Pb, Sb, Tl, V, Hg, Cr^{6+}, Be, Se, Zn, Sn, Te) by the calculation from measured values[4]	IP 568b (ČSN EN 14385; ČSN EN 13211; EPA Method 0061; EPA Method 29)	Emissions	-
12	Determination of mass concentration of persistent organic compounds (PCDD/PCDF, PCB, PAH) by the calculation from measured values[4]	IP 700 (ČSN EN 1948-3; ČSN EN 1948-4+A1; ISO 11338)	Emissions	-
13	Determination of mass concentration of volatile organic compounds (VOC) by capture on solid sorbent by calculation from measured values[4]	IP 568c (ČSN P CEN/TS 13649; ČSN EN ISO 16017-1)	Emissions, immission	-
14	Determination of concentration of odour substances by dynamic olfactometry	IP 1000 (ČSN EN 13725)	Emissions, immission	-
15*	Demonstration of quality of automated measuring systems	IP 1100 (ČSN EN 14181, cl. 6 QAL2, čl. 8 AST)	Automated emission measuring systems	-
16	Determination of mass concentration of dust TSP by gravimetry and PM10 fraction and PM2.5 fraction by calculation from measured values[4]	IP 2100 (ČSN ISO 7708; ČHMÚ 1997 MP 11; ČSN EN 12341)	Immission	-
17*	Determination of the mass concentration of gaseous components (NO, NO_2, N_2O, SO_2, CO, CO_2, H_2O, HCl, NH_3, CH_4) by FTIR method	IP 200f (ISO 10396; ČSN EN 15259; ČSN P CEN/TS 17337)	Emissions	-

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Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
18	Determination of ammonia by spectrophotometric method	IP-1AL (ČSN EN ISO 21877; ČSN ISO 7150-1)	Absorption solutions	-

[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 valid edition of the specified procedure is used (including any changes)

[3] the laboratory does not apply a flexible approach to the scope of accreditation

[4] laboratory determination of the analytes in the sample is carried out by an external test provider within the scope of its accreditation

Sampling:

Ordinal number	Sampling procedure name	Sampling procedure identification[1]	Subject of sampling
1	Sampling of solid pollutants, PM10 fraction and PM2.5 fraction (Isokinetic sampling with automatic or manual isokinetic control)	IP 100, chapter 7.5 (ISO 9096; ČSN EN 13284-1; ČSN EN ISO 23210)	Emissions
2	Sampling of gases and vapours (SO_2, HCl, HF, Ammonia, Sulfane, Cl_2, HCN, total reduced sulphur - TRS) by absorption into liquid	IP 568, Annex 2 (ČSN EN 14791; ISO 7934; ČSN EN 1911; ČSN P CEN/TS 17340; ISO 15713; ČSN EN ISO 21877; ČSN 83 4712-2; ČSN 83 4751:1988; EPA OTM-29; EPA Method 16A)	Emissions

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Ordinal number	Sampling procedure name	Sampling procedure identification[1]	Subject of sampling
3	Sampling of metals (As, Cd, Cr, Co, Cu, Mn, Ni, Pb, Sb, Tl, V, Hg, Cr^{6+}, Be, Se, Zn, Sn, Te) (isokinetic sampling with automatic or manual isokinetic control)	IP 568, Annex 3 (ČSN EN 14385; ČSN EN 13211; EPA Method 0061; EPA Method 29)	Emissions
4	Sampling of persistent organic compounds (PCDD/PCDF, PCB, PAH) by dilution method (Isokinetic sampling with automatic or manual isokinetic control)	IP 700, chapter 7.5 (ČSN EN 1948-1; ČSN EN 1948-4+A1; ISO 11338-1)	Emissions
5	Sampling of volatile organic compounds (VOC) by capture on a solid sorbent	IP 568, Annex 4 (ČSN P CEN/TS 13649; ČSN EN ISO 16017-1)	Emissions, immission
6	Sampling of odour substances	IP 1000, chapter 5 (ČSN EN 13725)	Emissions, immission
7	Sampling for the determination of mass concentration of dust TSD, PM10 fraction and PM2.5 fraction	IP 2100, chapter 6 (ČSN ISO 7708; ČHMÚ 1997 MP 11; ČSN EN 12341)	Immission

[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 valid edition of the specified procedure is used (including any changes)

Explanations:

Emission	waste gas containing pollutants, which is released in a controlled way or leaks into atmosphere from air pollution sources air
FID	Flame Ionization Detection
FTIR	Fourier Transform Infrared Spectroscopy
IP	internal regulation
NDIR	Nondispersive Infrared Spectrometry

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OTN ŽP	Branch technical standard of MoE SR
PAH	Polycyclic Aromatic Hydrocarbons
PCB	Polychlorinated Biphenyls
PCDD/PCDF	Polychlorinated Dibenzodioxins/Polychlorinated Dibenzofurans
TESO	Registered trademark of Technické služby ochrany ovzduší
PM10, PM2,5	aerosol with particle sizes of 10μm a 2,5μm
TOC	Total Organic Carbon
TSD	Total Suspended Dust

"This document is an appendix to the certificate of accreditation. In case of any discrepancies between the English and Czech versions, the Czech version shall prevail, both for the certificate appendix and the certificate itself."