Schedule of Accreditation

issued by

United Kingdom Accreditation Service

2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

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Accredited to ISO/IEC 17025:2017

Tata Steel UK Limited trading as Tata Steel Group Health Safety and Environment

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Tata Steel
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Testing performed by the Organisation at the locations specified below

Locations covered by the organisation and their relevant activities

Laboratory locations:

Location details		Activity	Location code
Address Tata Steel Unit 2 Meadowhall Business Park Carbrook Hall Road Sheffield S9 2EQ	**Local contact – Environmental Analysis** Mrs Amanda Horne Tel: +44 (0)114 204 3016 Email: Amanda.horne@tatasteeleurope.com	**Support Functions:** Quality System Quality Audit Administration **Testing:** Analysis of stack emissions samples Physical Testing Analysis of Environmental samples **Sampling and Testing:** Stack Emissions Testing	A

Site activities performed away from the locations listed above:

Location details	Activity	Location code
Customer Sites requiring Stack Emissions Testing	Stack Emissions Testing	B

DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
ATMOSPHERIC POLLUTANTS AND EFFLUENTS – STACK GAS SAMPLES	<u>Physical Testing</u>	National, European, International and Environment Agency specified standards including MIDs and Documented In-House work instructions to meet the requirements of the Environment Agency (MCERTS) Performance Standard for laboratories carrying out testing of samples from stack emissions monitoring	
Filter Papers and Rinse Solutions	Weighing of Particulate Matter	BS EN 13284-1:2017 (ENVPES 924)	A
POLLUTANTS and EFFLUENTS:	<u>Chemical Testing</u>	Documented in house procedures	
Waste water effluents	Determination of trace metals, specifically: Al, As, Cd, Cr, Co, Cu, Fe, Pb, Mn, Ni, V and Zn	Documented in-house method ENVPES 825	A
Leachates of environmental samples of dusts and steel making materials	Chloride	Documented in-house method ENVPES 104	A
Fine Particulates - collected on quartz, PTFE and polycarbonate filters	Determination of trace metals, specifically: Cu, Pb, Cd	Documented in-house method ENVPES 103	A
Leachates of environmental samples of dusts and steel making materials	Determination of trace metals, specifically: As, Cd, Cu, Mn, Pb, V and Zn	Documented in-house method ENVPES 103	A
Dusts, ores, air filters	Determination of Lead-210 and Polonium-210	Documented in-house method ENVPES 822	A

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
ATMOSPHERIC POLLUTANTS AND EFFLUENTS – STACK GAS SAMPLES (cont'd)	Sampling with subsequent analysis by an ISO/IEC 17025 Accredited Laboratory	Documented In-House Methods in accordance to the following national, international and other recognised standards.	
Testing of Stack Emissions to Atmosphere	Sampling of Particulate matter for subsequent analysis by an ISO/IEC 17025 Accredited Laboratory	BS EN 13284-1:2017 (ENV PES 926)	B
Testing of Stack Emissions to Atmosphere	Sampling with subsequent analysis by an ISO/IEC 17025 Accredited Laboratory	National, European, International and Environment Agency specified standards including MIDs and Documented In-House work instructions to meet the requirements of the Environment Agency (MCERTS) Performance Standard and BS EN 15259:2007	
	Total Particulate Matter	BS EN 13284-1:2017 (ENVPES 926)	B
	Hydrogen Chloride	BS EN 1911-1:2010 (ENVPES 930)	B
	Metals	BS EN 14385:2004 (ENVPES 929)	B
	Mercury	BS EN 13211:2001 (ENVPES 934)	B
	Dioxins and Furans	BS EN 1948-1:2006 (ENVPES 928)	B
	Polycyclic Aromatic Hydrocarbons (PAHs)	BS ISO 11338-1:2003 (ENVPES 945)	B
	Sulphur dioxide	BS EN 14791:2017 (ENVPES 937)	B

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
Testing of Stack Emissions to Atmosphere (cont'd)	<u>Sampling and On-Line Analysis</u>	National, European, International and Environment Agency specified standards including MIDs and Documented In-House work instructions to meet the requirements of the Environment Agency (MCERTS) Performance Standard and BS EN 15259:2007	
	Pressure, Temperature and Velocity (Point Velocity Method) for: • Periodic Compliance Monitoring	BS EN 16911-1:2013 & EA MID 16911-1 (ENVPES 926 using differential pressure device (pitot tube) method) Procedure to meet requirements of PD CEN TR 17078:2017 Measurement Objective 1	B
	Water Vapour	BS EN 14790:2017 (ENVPES 941) PD CEN/TS 17337:2019 (ENV PES 949 – Validated FTIR analyser)	B
	Carbon Dioxide*	PD CEN/TS 17405:2020 (ENVPES 911 - NDIR analyser) PD CEN/TS 17337:2019 (ENV PES 949 – FTIR analyser)	B
	Carbon Monoxide*	BS EN 15058:2017 (ENVPES 911 - NDIR analyser) PD CEN/TS 17337:2019 (ENV PES 949 – Validated FTIR analyser)	B
	Nitrogen Monoxide (NO)*	BS EN 14792:2017 (ENVPES 911 – Chemiluminescence analyser) PD CEN/TS 17337:2019 (ENV PES 949 – Validated FTIR analyser)	B
	Nitrogen Dioxide (NO_2)*	PD CEN/TS 17337:2019 (ENV PES 949 – Validated FTIR analyser)	B

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
Testing of Stack Emissions to Atmosphere (cont'd)	<u>Sampling and On-Line Analysis</u> (cont'd)	National, European, International and Environment Agency specified standards including MIDs and Documented In-House work instructions to meet the requirements of the Environment Agency (MCERTS) Performance Standard and BS EN 15259:2007	
	Oxides of Nitrogen (NOx)*	BS EN 14792:2017 (ENVPES 911 – Chemiluminescence analyser) PD CEN/TS 17337:2019 (ENV PES 949 – Validated FTIR analyser)	B
	Oxygen*	BS EN 14789:2017 (ENVPES 911 - Validated Zirconium cell analyser) (ENVPES 942 - Paramagnetic analyser)	B
	Sulphur dioxide*	PD CEN/TS 17337:2019 (ENV PES 949 – Validated FTIR analyser)	B
	Total Gaseous Organic Carbon* (TOC / VOC) (0 to 1000 mg/m^3)	BS EN 12619:2013 (ENVPES 935 - FID Analyser)	B
Stack Emissions - Continuous Emissions Monitoring Systems (CEMS)	QAL 2 and the Annual Surveillance Test (AST) for CEMS	Documented in house procedure ENV PES 952 to meet the requirements of BS EN 14181:2014, Environment Agency MID 14181 (TGN M20 Annex A) and other requirements of the Environment Agency (MCERTS) Performance Standard and BS EN 15259:2007	B
END			

* - The scale range of the analyser used for this test must be that detailed on its current MCERTS certificate or a range validated by the organisation to meet MCERTS requirements.