China National Accreditation Service for Conformity Assessment

LABORATORY ACCREDITATION CERTIFICATE

(Registration No. CNAS L13679)

Nanjing Dongda Self-Balanced Pile Foundation Testing Co., Ltd.

(Legal Entity: Nanjing Dongda Self-Balanced Pile Foundation Testing Co., Ltd.)

No.13, Xinggu Road, Jiangning District, Nanjing, Jiangsu, China

is accredited in accordance with ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories(CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence to undertake the service described in the schedule attached to this certificate.

The scope of accreditation is detailed in the attached schedule bearing the same registration number as above. The schedule forms an integral part of this certificate.

Effective Date：2022-02-10

Expiry Date：2026-10-13

Signed on behalf of China National Accreditation Service for Conformity Assessment

China National Accreditation Service for Conformity Assessment (CNAS) is authorized by Certification and Accreditation Administration of the People's Republic of China (CNCA) to operate the national accreditation schemes for conformity assessment. CNAS is a signatory of the International Laboratory Accreditation Cooperation Mutual Recognition Arrangement (ILAC MRA) and the Asia Pacific Accreditation Cooperation Mutual Recognition Arrangement (APAC MRA).

The validity of the certificate can be checked on CNAS website at http://www.cnas.org.cn/english/findanaccreditedbody/index.shtml.

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Effective Date: 2022-12-30 Expiry Date: 2026-10-13

SCHEDULE 1 ACCREDITED KEY LOCATIONS OF THE LABORATORY

Locations Specified	Location Code	Address/Postal Code	Facilities Characteristic	Activity	Note	Effective Date
	A	No.13, Xinggu Road, Jiangning District, Nanjing, Jiangsu, China/211164	Ⅰ, Ⅱ	(1),(3),(4),(5)		2022-12-30

Note:

1. Facilities Characteristics I: Fixed Facilities, II: Out of Fixed Facilities, III: Temporary Facilities, IV: Mobile Facilities, V: Others.
2. Activity (1): Testing, (2): Calibration, (3): Issue of Reports/Certificates, (4): Sample Receiving, (5): Contract Review, (6): Others.

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SCHEDULE 2 ACCREDITED SIGNATORIES AND SCOPE

№	Name	Authorized Scope of Signature	Note	Effective Date
1	Guojun Miao	All testing items.		2022-12-30

Name: Nanjing Dongda Self-Balanced Pile Foundation Testing Co., Ltd.

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Accreditation Criteria: ISO/IEC 17025:2017 and relevant requirements of CNAS

Effective Date: 2022-12-30 Expiry Date: 2026-10-13

SCHEDULE 3 ACCREDITED TESTING SCOPE

№	Test Object	Item/Parameter		Standard or Method	Note	Effective Date
		№	Item/ Parameter			
1	Foundation	1	Bearing capacity	Code for investigation of geotechnical engineering GB 50021-2001 10.2		2022-12-30
				Code for design of building foundation GB 50007-2011 Appendix C, Appendix D		2022-12-30
				Code for Design of Ground Base and Foundation of Highway Bridges and Culverts JTG 3363-2019 Appendix D, Appendix E, Appendix F		2022-12-30
				Technical code for testing of foundation soil and building foundation DB32/T 3916-2020 8, 9, 102		2022-12-30
				Technical code for ground treatment of buildings JGJ 79-2012 Appendix A, Appendix B, Appendix C		2022-12-30
				Technical code for testing of building foundation soils JGJ 340-2015 4, 5, 6		2022-12-30
				Technical Specification for Testing and Inspection of Port and Waterway Engineering Foundation JTS 237-2017 5.12		2022-12-30
2	Foundation Pile	1	Compressive Bearing Capacity	Technical code for testing of building foundation piles JGJ 106-2014 4		2022-12-30

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№	Test Object	Item/Parameter		Standard or Method	Note	Effective Date
		№	Item/ Parameter			
				Code for design of building foundation GB 50007-2011 Appendix Q		2022-12-30
				Technical specification for static loading test of self-balanced method of building foundation piles JGJ/T 403-2017		2022-12-30
				Technical Specification for Construction of Highway Bridge and Culverts JTG/T 3650-2020 Appendix E		2022-12-30
				Technical Specifications for Foundation Piles Testing of Highway Engineering JTG/T 3512-2020 5		2022-12-30
				Static loading test of foundation pile—Self-balanced method JT/T 738-2009		2022-12-30
				Technical Specification for Testing and Inspection of Port and Waterway Engineering Foundation JTS 237-2017 6.4		2022-12-30
				Technical Specification for Testing of Railway Piles TB 10218-2019 7		2022-12-30
				Technical code for testing of foundation soil and building foundation DB32/T 3916-2020 4		2022-12-30
				Technical specification for static loading test of self-balanced method of foundation pile DB32/T 3917-2020		2022-12-30
				Technical specifications for testing of building foundation and piles DG/TJ 08-218-2017 4		2022-12-30
				Standard Test Methods for Deep Foundations Under Static Axial Compressive Load ASTM D1143/D1143M-20		2022-12-30
				Standard Test Methods for Deep Foundations Under Bi-Drectional Static Axial Compressive Load ASTM D8169/D8169M -18		2022-12-30
		2	Uplift Bearing Capacity	Technical code for testing of building foundation piles JGJ 106-2014 5		2022-12-30
				Code for design of building foundation GB 50007-2011 Appendix T		2022-12-30

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				Technical specification for static loading test of self-balanced method of building foundation piles JGJ/T 403-2017		2022-12-30
				Technical Specification for Construction of Highway Bridge and Culverts JTG/T 3650-2020 Appendix E		2022-12-30
				Static loading test of foundation pile—Self-balanced method JT/T 738-2009		2022-12-30
				Technical Specification for Testing and Inspection of Port and Waterway Engineering Foundation JTS 237-2017 6.5		2022-12-30
				Technical Specification for Testing of Railway Piles TB 10218-2019 8		2022-12-30
				Technical code for testing of foundation soil and building foundation DB32/T 3916-2020 5		2022-12-30
				Technical specification for static loading test of self-balanced method of foundation pile DB32/T 3917-2020		2022-12-30
				Standard Test Methods for Deep Foundations Under Static Axial Tensile Load ASTM D3689/D3689M-22		2022-12-30
				Standard Test Methods for Deep Foundations Under Bi-Directional Static Axial Compressive Load ASTM D8169/D8169M -18		2022-12-30
				Technical Specifications for Foundation Piles Testing of Highway Engineering JTG/T 3512-2020 6		2022-12-30
		3	Lateral Bearing Capacity	Technical code for testing of building foundation piles JGJ 106-2014 6		2022-12-30
				Code for design of building foundation GB 50007-2011 Appendix S		2022-12-30
				Technical Specification for Construction of Highway Bridge and Culverts JTG/T 3650-2020 Appendix E		2022-12-30
				Technical Specification for Testing and Inspection of Port and Waterway Engineering Foundation JTS 237-2017 6.6		2022-12-30

№	Test Object	Item/Parameter		Standard or Method	Note	Effective Date
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				Technical Specification for Testing of Railway Piles TB 10218-2019 9		2022-12-30
				Technical code for testing of foundation soil and building foundation DB32/T 3916-2020 6		2022-12-30
				Standard Test Methods for Deep Foundations Under Lateral Load ASTM D3966/D3966M-22		2022-12-30
				Technical Specifications for Foundation Piles Testing of Highway Engineering JTG/T 3512-2020 7		2022-12-30
		4	Pile Integrity	Technical code for testing of building foundation piles JGJ 106-2014 7, 8, 9, 10		2022-12-30
				Technical Specifications for Foundation Piles Testing of Highway Engineering JTG/T 3512-2020 4, 8, 9, 10, 11		2022-12-30
				Technical Specification for Testing and Inspection of Port and Waterway Engineering Foundation JTS 237-2017 6.2, 6.3, 6.7, 6.8		2022-12-30
				Technical Specification for Testing of Railway Piles TB 10218-2019 4, 5, 6, 10		2022-12-30
				Technical code for testing of foundation soil and building foundation DB32/T 3916-2020 14, 15, 16, 17		2022-12-30
				Standard Test Method for Low Strain Impact Integrity Testing of Deep Foundations ASTM D5882-16		2022-12-30
				Standard Test Method for Integrity Testing of Concrete Deep Foundations by Ultrasonic Crosshole Testing ASTM D6760-16		2022-12-30
		5	Pile Length	Technical code for testing of building foundation piles JGJ 106-2014 7		2022-12-30
				Technical Specifications for Foundation Piles Testing of Highway Engineering JTG/T 3512-2020 11		2022-12-30
				Technical Specification for Testing and Inspection of Port and Waterway Engineering Foundation JTS 237-2017 6.7, 6.8		2022-12-30

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				Technical Specification for Testing of Railway Piles TB 10218-2019 10		2022-12-30
				Technical code for testing of foundation soil and building foundation DB32/T 3916-2020 14		2022-12-30
				Standard Test Method for Low Strain Impact Integrity Testing of Deep Foundations ASTM D5882-16		2022-12-30
		6	Pile Strength	Technical code for testing of building foundation piles JGJ 106-2014 7		2022-12-30
				Technical Specification for Testing and Inspection of Port and Waterway Engineering Foundation JTS 237-2017 6.7		2022-12-30
				Technical Specification for Testing of Railway Piles TB 10218-2019 10		2022-12-30
				Technical code for testing of foundation soil and building foundation DB32/T 3916-2020 14		2022-12-30
				Technical Specifications for Foundation Piles Testing of Highway Engineering JTG/T 3512-2020 11		2022-12-30
		7	Pile Bottom Sediment Thickness	Technical code for testing of building foundation piles JGJ 106-2014 7		2022-12-30
				Technical Specification for Testing and Inspection of Port and Waterway Engineering Foundation JTS 237-2017 6.7		2022-12-30
				Technical Specification for Testing of Railway Piles TB 10218-2019 10		2022-12-30
				Technical code for testing of foundation soil and building foundation DB32/T 3916-2020 14		2022-12-30
				Technical Specifications for Foundation Piles Testing of Highway Engineering JTG/T 3512-2020 11		2022-12-30
		8	Pile End Bearing Layer Geotechnical Properties	Technical code for testing of building foundation piles JGJ 106-2014 7		2022-12-30
				Technical Specification for Testing and Inspection of Port and Waterway Engineering Foundation JTS 237-2017 6.7		2022-12-30

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				Technical Specification for Testing of Railway Piles TB 10218-2019 10		2022-12-30
				Technical code for testing of foundation soil and building foundation DB32/T 3916-2020 14		2022-12-30
				Technical Specifications for Foundation Piles Testing of Highway Engineering JTG/T 3512-2020 11		2022-12-30
		9	Hole Forming Quality	Technical specification for the testing of the drilling hole of cast-in-place pile and the groove of diaphragm wall DG32/T 4115-2021		2022-12-30
				Technical specification for the testing of the drilling hole of cast-in-place pile and the groove of diaphragm wall DB/T 29-112-2021		2022-12-30
				Technical Specifications for Foundation Piles Testing of Highway Engineering JTG/T 3512-2020 4		2022-12-30

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