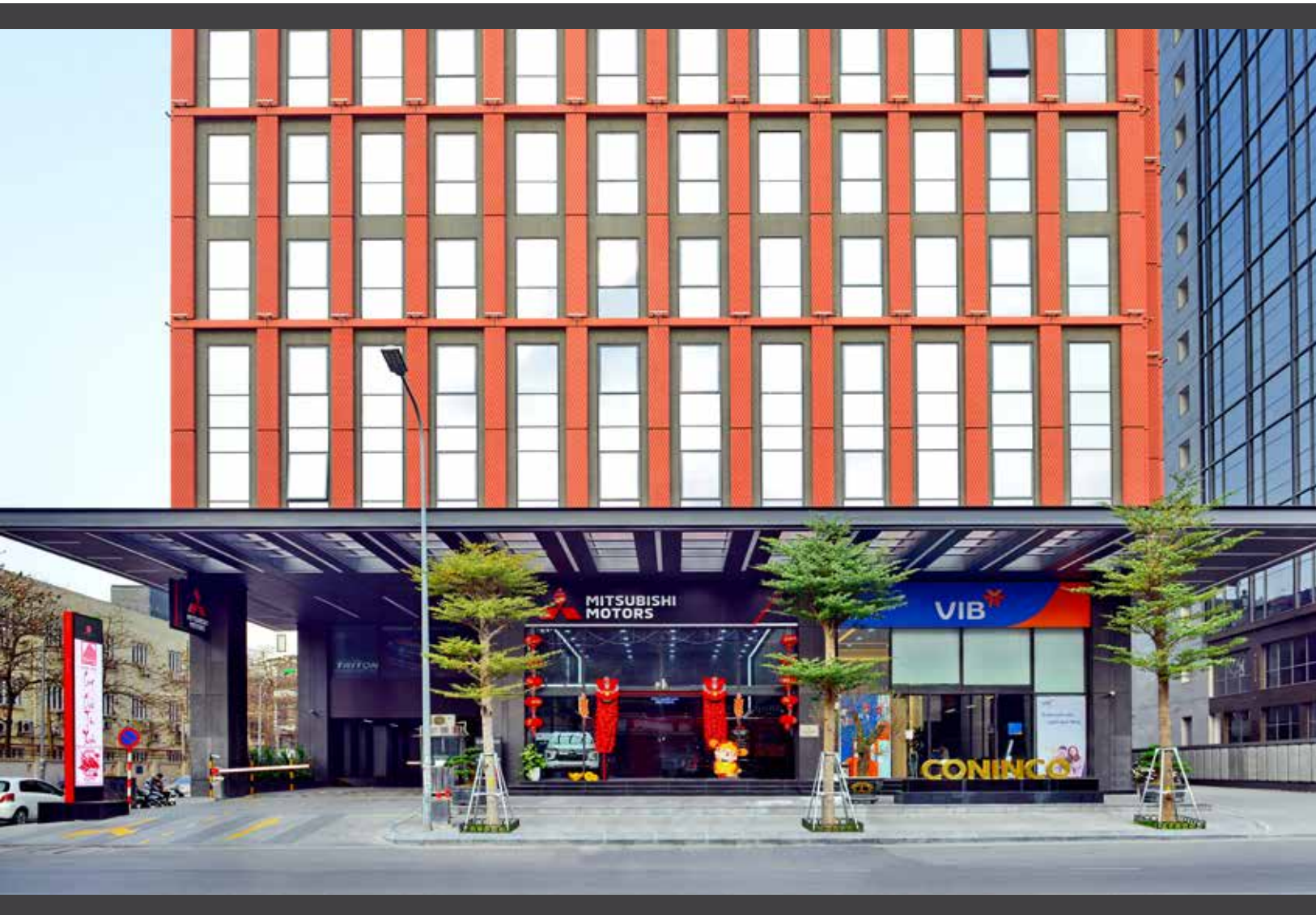




CONINCO

ASSURANCE FOR THE FUTURE



CAPACITY PROFILE



CONTENT

- 1** Company Introduction
- 2** List of Testing Equipment and Office Equipment
- 3** Organization Chart
- 4** Legal Documents
- 5** Company's Capacity



COMPANY INTRODUCTION

Name of Company in Vietnamese	CÔNG TY CỔ PHẦN TƯ VẤN CÔNG NGHỆ THIẾT BỊ VÀ KIỂM ĐỊNH XÂY DỰNG - CONINCO
Name of Company in English	CONSULTANT AND INSPECTION JOINT STOCK COMPANY OF CONSTRUCTION TECHNOLOGY AND EQUIPMENT
Abbreviated Name	CONINCO
Head Office	Add: No. 4 Ton That Tung str., Trung Tu ward, Dong Da dist., Hanoi, Vietnam Tel : (+84-24) 38523706 Email: conincohn@coninco.com.vn Website: www.coninco.com.vn
Registration of Trademark	No. 0100106169 issued by Hanoi Authority of Planning and Investment The 1 registration dated 24/01/2007; The 8 th registration for change dated 18/10/2021
Tax code	0100106169
Branch of Company	Branch of Consultant and Inspection Joint Stock Company of Construction Technology and Equipment Add : No. 34 Pho Quang str., ward No.2, Tan Binh dist., Ho Chi Minh city, Vietnam
Overseas Company	Consultant and Inspection of Construction Technology and Equipment (CONINCO-LAO) Sole Co., Ltd. Add: 012, Phonxavat Tay - Sikhotaboong, Vientiane, Lao PDR



Assurance for the future

Consultant and Inspection Joint Stock Company of Construction Technology and Equipment (CONINCO., JSC) is an investment and construction consulting company, multi-disciplinary operation in national scope, having effective co-operation with many big companies and economic groups all over the world. With the philosophy “Assurance for the future”, we always aim to give sustainable development to our own company and our Clients as well.

Business Philosophy

For CONINCO, we do not mind sharing the knowledge and experiences. Because sharing is the development. Life also stems from sharing, and only sharing and understanding to share can help us exist forever.

Mission

To Client: Provide high quality and effective consulting services, and give increasing benefits to the Clients at present and in the future.
To Community: Bring sustainable development values for environment, comforts for life and assurance for the future. Working Environment: Act together to create a dynamic, creative, self-control working environment, promote individuals to build their personal brands.

Vision

In CONINCO, we constantly strive for becoming a Construction Consulting Company which has “Global Vision - Practical Action”, as well as becoming a chain of the link of the world top brands.

CONINCO'S HISTORY AND DEVELOPMENT



Research Institute

1979 - 1984

Research Institute of Mechanization and Construction Technology

On April 16th, 1979, Government Council issued Decree No.156-CP defining functions, tasks and organizational structure of National Capital Construction Committee. Organizational structure of National Capital Construction Committee includes 05 Research Institutes, in which one of those is Research Institute of Mechanization and Construction Technology.

Institute of Technology

1985 - 1988

Institute of Technology and Construction

On August 27th, 1985, Mr. Do Quoc Sam – Chairman of National Capital Construction Committee signed Decision No. 102/UB-TCCB on changing Company's name from Research Institute of Mechanization and Construction Technology to Institute of Technology and Construction.

Institute of Mechanization

1988 - 1994

Institute of Mechanization and Construction Technology

In the end of 1987, National Assembly at its 8th session, issued Resolution on merging National Capital Construction Committee and Ministry of Construction into Ministry of Construction. On August 3rd, 1988, Minister of Ministry of Construction signed Decision No. 894/BXD-TCLĐ on changing Institute's name from Institute of Technology and Construction to Institute of Mechanization and Construction Technology.

State owned Enterprise

1994 - 2006

Consultant and Inspection Company of Construction Technology and Equipment

On March 4th, 1994, Government issued Decree No. 15/CP defining functions, tasks, power and organizational structure of Ministry of Construction, accordingly some Research and Design Institutes would be changed into State owned Enterprise. On June 23rd, 1994, Minister of Ministry Construction signed Decision No. 438/BXD-TCLĐ on establishing Consultant and Inspection Company of Construction Technology and Equipment based on emergence of Institute of Mechanization and Construction Technology and Construction Inspection Company.

Joint Stock Company

2006 - current

Consultant and Inspection Joint Stock Company of Construction Technology and Equipment (CONINCO., JSC)

Effectuating State owned enterprise privatization policy, on December 22nd, 2006, Minister of Ministry of Construction signed Decision No. 1770/QĐ-BXD on transforming Company's form into Joint Stock Company. On June 01st, 2016, CONINCO's stock was official traded on UPCoM stock exchange, with the stock symbol is CNN.



Main Business Services

1. Construction Consultant:

- Project Feasibility Study (including civil, industrial, transportation, irrigation and technical infrastructure, water supply and drainage and environment);
- Survey, detailed planning design and construction design;
- Supervision of survey, construction, equipment installation and the perfection of construction;
- Consultancy on management of construction investment;
- Quality inspection: construction works, interior equipment for construction works, construction machines, technological equipment, means of transport and environment, identification of causes of damage and preparation of repair plans, evaluation of the residual value of the above products;
- Project management;
- Formulation of bidding documents, analysis and evaluation of proposals: construction and equipment installation, procurement of goods; selection of consultants, implementation of foreign investment consulting services;
- Verification of investment projects, technical design and total estimation, settlement of construction works;
- Design consultancy for solar power plants with an installed capacity of up to 110MW; Design consultancy and construction of transmission lines and substations with voltage up to 110kV; Construction supervision consultancy for hydropower plants with an installed capacity of up to 100MW; Construction supervision consultancy for solar power projects with an installed capacity of up to 100MW; Construction supervision consultancy for wind power plants with an installed capacity of up to 300MW; construction supervision consultancy and construction of transmission lines and substations with voltage level up to 220 KV.
- Certification of quality standard conformity for construction products; Consultancy on formulating the system of quality assurance for construction and certification of quality management system according to ISO standard for Organizations; Formulating Report on Environmental impact assessment, monitoring environmental impact to quality of civil construction, industrial construction and urban, countryside infrastructure; Inspection and certification of the quality of construction conformity; Testing of construction materials, components;

2. Training, researching, transferring on construction technologies and building materials;

3. Activities of centers, consulting agents, labor brokers; Providing and managing labor sources

4. Real estate business;

5. Other remaining business support activities according to the Business Registration.

Quality Policy

The Quality Policy of Consultant and Inspection Company of Construction Technology and Equipment (CONINCO., JSC) is the provision of consulting services on construction technology and equipment with the best quality to meet all the demands and expectation of the Clients by everlasting improvement and service quality.

The Company incessantly perfects the services in the high specialization, attaches special importance to work quality, assures service quality to meet all the demands promptly, makes the clients believe of the company's stable development in the future with the philosophy: "Assurance for the future".

General Director of Consultant and Inspection Company of Construction Technology and Equipment (CONINCO., JSC) commits to establishing & remaining the Quality Management System corresponding with International Standard ISO 9001 – 2015 and regularly improve the effectiveness of the Quality Management System.

To ensure the implementation of quality policy, the Company shall establish annual quality objective in conformity with the company's operation goal, focus on Clients, ensure service quality, continually train and foster knowledge for all personnel, periodically, punctually and effectively review the prevention & recovery system, constantly improve and ensure the availability, provide necessary resources.

CONINCO shall strive for the regional scale prestigious multi-principle consulting organization, having high quality which plays the role of one of the leading organization in the field of project's consultant and inspection nationwide.



TRAINING & SCIENTIFIC RESEARCH

Has been descended from the Institute of Mechanization and Construction Technology, Consultant and Inspection Joint Stock Company of Construction Technology and Equipment (CONINCO., JSC) has continued the tradition of Scientific – Technology researching operation and annually we have been entrusted to perform some scientific State-level and Ministry-level research projects. There are many professors, top experts all over the country our the scientific council.

Exclusive Patent License

- Research, design and manufacture the Centrifugal rotated lattice producing reinforced concrete electric poles for the 220 kV grids, including design process line, design and manufacture rotated lattice and cast, and accessories to ensure synchronous operation of the line. This project was the first-time designed and fabricated in Vietnam that has been operating effectively. The project was also patented for helpful solutions No. HI-0083 by the Patent Department in 1992.
- Research, design and manufacture vehicles of transporting ready-mixed concrete 4m³.

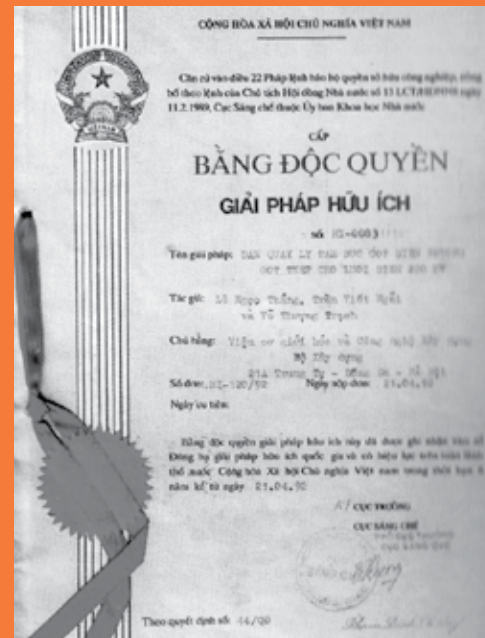
Compile, translate the Construction Standards

- TC 34-12: Pile driving equipment - Safety requirements
- TC 35-12: Excavators - Safety - Requirements for Hydraulic Excavator
- TC 36-12: Excavators - Safety - General Requirements
- TC 68-13: Excavators - Safety - Requirements for Caterpillar Bulldozer
- TC 69-13: Excavators - Safety - Requirements for Loader
- TC 70-13: Excavators - Safety - Requirements for Backhoe Excavator
- TC 71-13: Drilling Tools - Safety
- TC 72-13: Tubular Steel Scaffoldings - Technical Requirements and Testing
- TC 01-13: Steel Scaffolding & Form-work in Construction
- TC 88-15: Steel plates used in Form-work in Construction - Technical Requirements
- TC 105-15: Products of drainage system via high intensity PVC material
- TC 04-15: Manholes for drainage system via high intensity PVC material

Scientific Research

- Research and compile introductions and procedures of project verification, technical design, cost estimation, total cost estimation;
- Research and compile the Manual of creating technical introduction during work in civil and industrial constructions [TC 32-09]
- Compile the manual of introductions of urban lighting planning [TC 73-13]
- Research and create the list of Scaffolding, Form-work Standards based on foreign Standards [TC 84-13]
- Compile the handbook “Check-list form of construction inspection work and Process of construction supervision and acceptance”
- Compile the manual “Steel structure library - Construction and acceptance”
- Compile TCCS 85:2018/VASECT “Consolidating soft ground using the fly ash and blast furnace slag – Prototyping and determining aggregate process”

Strength from Tradition



Training

Our Board of Management always encourages Staff to strive studying and applies various forms of training such as: holding short term training in the courses of skill improvement and dissemination by the top national and foreign experts; Nominating engineers to attend high professional short and long term, Master or Doctor programs in Vietnam and foreign countries such as Japan, America, England, France, Germany, Belgium, Korea, Taiwan...

COMMERCIAL ACTIVITIES & TECHNOLOGY TRANSFER

Agency of Fire Protection Equipment

CONINCO is the official agency providing fire protection products of Yamato Protec Group – the first founder of foam fire extinguisher and powder fire extinguisher in Japan. Currently, Yamato Protec has 02 factories located in Binh Duong province and Dong Nai, province specialized in producing fire extinguisher, fire escape and fire protection equipment. All products are manufactured and controlled strictly under Standard of Quality Management System ISO 9001 – 2008 certificated by DNV.



Heat radiant air-conditioning system

With our capability and experience, CONINCO has been transferred successfully the technology of Heat radiant air-conditioning by SamYang (Korea).

The Heat radiant air-conditioning system not only improves indoor atmosphere, without noise and airflows, but also does not affect to the architecture side as well as creates a large space because the system would be installed inside ceiling and floor.

Comfortable
environment in room

Energy efficiency

Architectural
efficiency



Interior finishing materials

CONINCO Vietnam Japan Trade & Construction Joint Stock Company (CONINCO – VJ) specializes in providing interior materials genuinely imported from famous Groups of Japan which run in the field of interior material manufacturing. CONINCO – VJ also carries out the construction and installation of interior decoration.

The Company has invested and put into use many types of equipment, high-tech machinery of Japan to cater for the construction, installation, decoration of interior for civil and industrial works.

In addition, the materials used for construction such as glue and modern technology facilities are also applied due to the Japanese Standard, to ensure the longevity of constructions.

LIST OF TESTING EQUIPMENT



MODERN CONSTRUCTION LAB LAS-XD

Modern Construction Lab LAS-XD 60 (Hanoi) and LAS-XD 196 (Ho Chi Minh city) of our Company have been established and developed based on unification of several units of Institute of Mechanization and Construction Technology and Construction Inspection Company – Ministry of Construction.

Our LAS-XD system – member of Vietnam Network of Bodies for Assessing Construction Quality Conformity, Vietnam Association for Non-Destructive Testing, Association for Standards, Metrology and quality, equipped with synchronous and modern testing machine and equipment with advanced technology imported from famous brands in the world, such as: ELE, SHIMAZU, PDI, etc... meeting conditions as a standard lab in area as well as in the world under Quality management System complying with International Quality Management 9001:2015

No.	Type of device
A	Physical and mechanical tests of cements
1	Vica Equipment
2	Le Chatelier Mold
3	Ballast Mortar Table
4	Mold 20x20x20mm
5	Mold 40x40x160mm
6	Equipment display device
7	Standard screen 0.08mm
8	Le Chatelier gravity bottle
9	Flammable storage cabinet 1200 C
10	Desiccator
11	Balance unit

No.	Type of device
B	Concrete mixture testing
1	Slump cone
2	Square shaped Mold 15x15x15cm
3	Cylinder shaped Mold 15x30cm
4	Mold 5 litre
5	Bubble level measurement
6	Viscometer Vebe
7	Compressor 1500kN
8	Bending compressor 1000kN
9	Bending compressor 3000kN
10	Hydrostatic scale
11	Concrete sampling Mold



No.	Type of device	No.	Type of device	No.	Type of device
C	Mortar testing	I	Geotextiles, absorbent sponge testing	L	Glass testing
1	Mortar tension tester	1	Tractor, Compressor, CBR 1000 kN	1	Surface strain gauge - GASP
2	Mold 40x40x160mm	2	Pressure vessel 100mm	2	Optical penetration gauge - SD 2400
3	Sample container	3	Volumetric flask	3	Solar radiation sensor - WE 2500
D	Aggregate for concrete and mortar test (test of sand, crushed stone, gravel)	4	Technical scales	4	Multifunctional thickness gauge - Bohn
1	Split Mold	5	Glass bead	5	Optical spectrograph - 722N
2	Sand Equivalent	J	Soil testing	6	Glass surface abrasion machine
3	Density bottle	1	Mechanical compactor TC152+pestle	7	Collision pendulum framing system, falling ball
4	Mold 1liter	2	Mechanical compactor TC100+pestle	8	Framing system, screen detecting visual disabilities
5	Peck measure	3	Mechanical compactor CBR+auxiliaries	M	Devitrified stone, tiles testing
6	Soaking barrel	4	Standard Mechanical compactor	1	Deep abrasion machine
7	Desiccator	5	CBR tester + load ring	2	Surface abrasion machine
8	Drying cabinet ECOCELL	6	Soil shearing machine	3	Stone testing stiffness of the surface according to Mohs' hardness scale
9	Thermal bottle	7	Soil collapsed compression tester	4	Thermal expansion coefficient gauge
10	Magnifie	8	3-axis compressor	5	Thermal and moisture expansion coefficient gauge
11	Abrasive spinner L.A	9	Standard screen 20	6	Standard table and Displacement meter
12	Compressor 1500kN	10	Standard screen 30	7	Thermal shock resistance testing device
13	Aggregate drill, saw machine	11	Casagrande	8	Drying cabinet
14	Standard screen 30	12	Density gauge	9	Electronic and hydrostatic scale
15	Standard screen 20	13	Density bottle	10	Multifunctional testing machine of tension and compression SHIMADZU
16	Mold testing compression in cylinder	14	Penetration tester	11	Standard fixture
17	Dust, mud, clay testing bottle	15	Standard scale 0.002g	N	Paint testing
18	Hydrostatic scale	16	Some instruments and chemicals	1	Drying cabinet
E	Brick testing	K	Test on site		
1	Compressor, bender	1	Benkelman rod + auxiliaries		
2	Density bottle	2	Sand funnel		
F	Asphalt, asphalt concrete testing	3	Ring knife		
1	Device to determine penetration index	4	3m ruler		
2	Device to determine elongation	5	Surface roughness gauge		
3	Device to determine softening temperature	6	Radiation machine (Determine density on site)		
4	Density bottle for bitumen	7	CBR tester on site		
5	Asphalt concrete mold	8	Dynamic penetration tester		
6	Centrifugal Casting Machine	9	Static load tester		
7	Vacuum	10	Standard penetration tester SPT		
8	Compressor Marshall + Load ring	11	Ultrasonic RADAR detector (Check, determine reinforcement fabric in concrete)		
G	Polyme bitumen testing	12	Multifunctional Concrete Drill		
1	Penetration index tester	13	Concrete cement Drill		
2	Softening temperature tester	14	Asphalt concrete Drill		
3	Asphalt prolong machine	15	Ultrasonic concrete machine		
4	Aluminum tube	16	Ultrasonic testing instrument (Prometter 5)		
5	Drying cabinet: Maintain temperature at 163°C	17	Ultrasonic bored pile testing instrument		
6	Cooling device	18	Pile Integrity Tester (PIT)		
7	Viscometer Brookfield	19	Pile Driving Analyzer (PDA)		
H	Steel testing	20	Vane shear strength machine		
1	Tractor, bender 1000kN	21	Cone penetration testing equipment		
2	Ultrasonic welding machine				



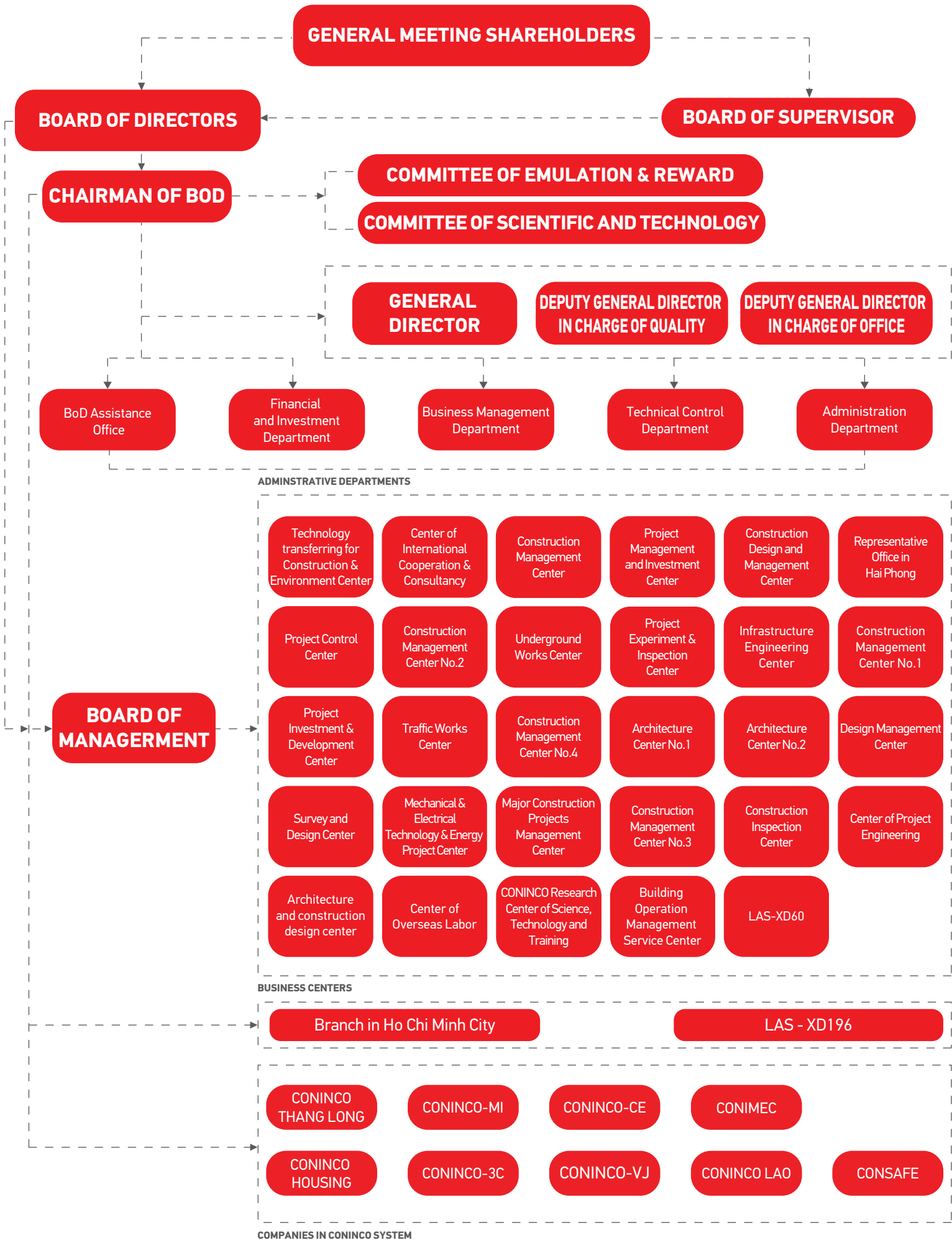
ORGANIZATION CHART

BOARD OF DIRECTORS

Chairman of Board of Directors Mr. Nguyen Van Cong
Members
Mr. Phan Ngoc Cuong
Mr. Nguyen Manh Tuan
Mr. Ha Minh
Mr. Nguyen Xuan Hai

BOARD OF MANAGEMENT

General Director Mr. Phan Ngoc Cuong
Deputy General Directors
Mr. Nguyen Manh Tuan
Mr. Le Ngoc Quang
Mr. Nguyen Luong Binh
Mr. Nguyen Huu Truong
Mr. Nguyen Dang Quang
Mr. Nguyen Huy Anh
Mr. Le Thanh Minh
Mr. Nguyen Minh Quan
Mr. Tran Thanh Hai
Mr. Nguyen Dac Phuong
Mr. Le Nguyen Giap



LEGAL DOCUMENTS

Content

Decision on Establishment

Certificate of Business Registration Joint Stock Company

Certificate of Branch Registration

ISO 9001:2015 Certificate

Certificate of Construction Capacity No: BXD-00000114

Electricity Activities License

Certificate of Eligibility to provide fire safety services.

Certificate on being Eligible for carrying out test on Construction.

Decision On appointing testing and certification institution

Certificate of Construction Capacity No: HAN-00000114
(Type of project: Agricultural and rural development)

License to operate the service of sending workers to work abroad

MINISTRY OF CONSTRUCTION

No.1770/ QD-BXD

SOCIALIST REPUBLIC OF VIETNAM

Independence - Freedom - Happiness

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Hanoi, 22 December 2006

DECISION

Re: Changing Consultant and Inspection Company of Construction Technology and Equipment into a Joint Stock Company

MINISTER OF CONSTRUCTION

- Pursuant to the Decree No 36/2003/ND-CP dated 4/4/2003 by Government regulating the functions, duties, rights and organization structure of Ministry of Construction;
- Pursuant to the Decree No 187/2004/ND-CP dated 16/11/2004 by Government on changing a State-owned Company into a Joint Stock Company;
- Pursuant to the Circular No 126/2004/TT-BTC dated 24/12/2004 by Ministry of Finance introducing the implementation of Decree No 187/2004/ND-CP dated 16/11/2004 by Government on changing a State-owned Company into a Joint Stock Company;
- Pursuant to the Circular No 95/2006/TT-BTC dated 12/10/2006 by Ministry of Finance on amendment of the Circular No 126/2004/TT-BTC dated 24/12/2004 by Ministry of Finance introducing the implementation of Decree No 187/2004/ND-CP dated 16/11/2004 by Government on changing a State-owned Company into a Joint Stock Company;
- Pursuant to the Decision No 1447/QD-BXD dated 23/10/2006 by Minister of Construction on approval of the privatization project of Consultant and Inspection Company of Construction Technology and Equipment;
- At the request of Director of Consultant and Inspection Company of Construction Technology and Equipment at the Statement No 1825/CT-CPH dated 12/12/2006;
- At the proposal of Head of Business Innovation and Development Section, Ministry of Construction;

DOES HEREBY DECIDE

Article 1: To change the State-owned Company: Consultant and Inspection Company of Construction Technology and Equipment into Consultant and Inspection Joint Stock Company of Construction Technology and Equipment, with the main contents as follow:

2.1. Name, address of the head office:

- Vietnamese Name: Công ty Cổ phần Tư vấn Công nghệ Thiết bị và Kiểm định Xây dựng
- International Transaction Name: Consultant and Inspection Joint Stock Company of Construction Technology and Equipment
- Abbreviation Name: CONINCO
- Head office: No 4 Ton That Tung St., Trung Tu ward, Dong Da district, Hanoi City

2.2. Operation model:

Consultant and Inspection Joint Stock Company of Construction Technology and Equipment is a Subsidiary Company in the combination of Parent Company - Subsidiary Company of VC Group.

At the time of changing into a joint stock company, Consultant and Inspection Joint stock Company of Construction Technology and Equipment is governed by its Parent Company - Vietnam National Construction Consultants Corporation

2.3. Consultant and Inspection Joint Stock Company of Construction Technology and Equipment has its legal entity under the Law of Vietnam; implements the independent economic accounting regime; has its own seal, to be able to open its account at the Bank under the statutory law; to be organized and operated under the Business Law and regulations of the Joint Stock Company which are approved by General Meeting of Shareholders; and to be registered its business operation under the statutory law.

2.4. Charter capital and shares:

- Charter capital: 22,000,000,000 VND (Twenty two billion Vietnam dong). The charter capital is divided into 2,200,000 shares with face value of 10,000 VND/share, in which:
- State shares: 1,122,000 shares, account for 51% of charter capital
- Shares of other shareholders: 1,078,000 shares, account for 49% of charter capital.

2.5. Main business activities:

- Formulation of construction projects: civil, industrial, traffic, irrigational, technical infrastructure, drainage and environmental projects;
- Surveying, designing detailed plan and engineering buildings;
- Appraisal of investment project, technical design, estimated cost;
- Formulation of bid dossier, Evaluation of bid documents: installing equipment, buying commodities, recruiting counselors, carrying out the consultancy services on foreign investment;
- Project management, construction building and equipment installing supervision;
- Testing construction materials, construction components;
- Quality inspection: construction project, interior facilities, machineries, technology equipment, means of transportation, environment, defining reasons of damage and setting up reparation method, appraisal of the remaining value of the above products.
- Inspecting and providing certificates of quality for construction buildings.
- Acting as EPC and general contractor on turnkey basic;
- Implementing civil, industrial, technical infrastructure, hygiene, environmental and residential investment projects
- Formulating the assessment report of environment impact, monitoring the impact caused by the environmental effect to the quality of civil, industrial, urban and rural infrastructure construction buildings;
- Training, researching, transferring construction technology and construction materials; designing, examining to repair and recover construction machines, technology equipment;

- Doing business in Importing - Exporting technological products, construction materials, equipment;
- Consulting to set up quality assurance system for construction project and providing certificate of quality according to ISO standard to organizations;
- Providing certificate of suitable quality for construction products;
- Building civil, industrial, technical infrastructure projects;
- Other business activities in accordance with the regulations of the Law

Article 3:

President of Vietnam National Construction Consultants Corporation shall be assigned to lead Consultant and Inspection Joint Stock Company of Construction Technology and Equipment to complete the process of privatization, hand over the whole capital, properties, employees,... of the Company to Board of Directors and Director of Consultant and Inspection Joint Stock Company of Construction Technology and Equipment under the statutory regulation.

Article 4: This Decision comes into force from the signing date.

Head of Business Innovation and Development Session - Ministry of Construction, Heads of relevant ministerial agencies, President, General Director of Vietnam National Construction Consultants Corporation, Director of Consultant and Inspection Company of Construction Technology and Equipment, Board of Directors, Director of Consultant and Inspection Joint Stock Company of Construction Technology and Equipment shall be responsible for the implementation of this decision.

Copies to:

- As Article 4
- Business Innovation and Development Leading Session
- Ministry of Finance
- People's Committee of Hanoi City
- Construction Trade Union of Vietnam
- Archives: Secretariat, Personnel Dept., Financial Dept.

FOR AND ON BEHALF OF
MINISTER OF CONSTRUCTION
DEPUTY MINISTER
(Signed and sealed)
Dinh Tien Dung

I, the undersigned, Nguyen Thu Ha, whose ID card No. 031090494 issued by Haiphong Public Security on January 7th 1997, confirm to have exactly translated this document from Vietnamese to English.

Tôi, Nguyễn Thu Hà, CMND số 031090494 cấp tại Công an TP Hải Phòng ngày 7/1/1997, cam đoan đã dịch chính xác giấy tờ/văn bản này từ tiếng Việt sang tiếng Anh.
Ngày 20 tháng 10 năm 2009

Người dịch/translator



Nguyễn Thu Hà

This is to certify that Ms. Nguyen Thu Ha, whose ID card No. 031090494 issued by Haiphong Public Security on January 7th 1997, subscribed before me
Certified No., Book No. 11 SCT/CK
At Justice Department of Dong Da District

Chúng thực bà Nguyễn Thu Hà
CMND số 031090494 cấp tại Công an TP Hải Phòng
ngày 7/1/1997, đã ký trước mặt tôi.
Số chứng thực: 1539, Quyền số: 11 SCT/CK
Tại Phòng Tư pháp quận Đống Đa
Ngày 20 tháng 10 năm 2009



PHÓ TRƯỞNG PHÒNG TƯ PHÁP
Lê Thị Thu Giang

**CERTIFICATE OF BUSINESS REGISTRATION
FOR JOINT STOCK COMPANY**

Business Code: 0100106169

The first registration on January 24, 2007

The 8th registration for change on October 18, 2021

1. Name of Company

Name of the Company in Vietnamese: CÔNG TY CỔ PHẦN TƯ VẤN CÔNG NGHỆ,
THIẾT BỊ VÀ KIỂM ĐỊNH XÂY DỰNG-CONINCO

Name of the Company in foreign language: CONSULTAN AND INSPECTION JOINT
STOCK COMPANY OF CONSTRUCTION TECHNOLOGY AND EQUIPMENT

Abbreviated name: CONINCO

2. Head office:

No.4, Ton That Tung Street, Trung Tu Ward, Dong Da District, Hanoi, Vietnam

Telephone: 84438523706

Fax: 84435741708

Email: conincohn@coninco.com.vn

Website: www.coninco.com.vn

3. Charter capital:

Charter capital: VND 88,000,000,000

In words: Eighty eight billion Vietnamese dong

Par value of shares: VND 10,000

Total shares: 8,800,000

4. Legal representative of the Company:

* Full name: NGUYEN VAN CONG Sex: Male

Position: Chairman of the Board of Management

Date of birth: August 06, 1960 Ethnic group: Kinh Nationality: Vietnamese

Type of personal identification document: Identity Card

ID Card No.: 027060011653

Date of issue: August 23, 2021 issued by: Police Department for Administrative
Management of Social Order

Permanent residence: Room 14a I16B, Thanh Cong Collective Apartment 2, Lang Ha
Ward, Dong Da District, Hanoi, Vietnam

Current address: Room 14a I16B, Thanh Cong Collective Apartment 2, Lang Ha Ward,
Dong Da District, Hanoi, Vietnam

For and behalf of MANAGER

(Signed and sealed)

Deputy Manager

Nguyen Duy Cuong



**CERTIFICATE OF
BRAND REGISTRATION**

No. 73532

RE-ISSUED COPY

Owned by: CONSULTANT AND INSPECTION COMPANY
OF CONSTRUCTION TECHNOLOGY AND EQUIPMENT (VN)

No. 4 Ton That Tung Street, Dong Da District, Hanoi city

Application No.: 4-2003-03760

Date of submitting: 23.05.2003

Issued under Decision No: 6700/QĐ-SHTT dated 10.07.2006

Be effective within 10 years from date of submitting (possible to extend).

Re-issued for the 1st time according to Decision on Re-issuance No. 2836/QĐ-SHTT dated
30.10.2013

**FOR GENERAL DIRECTOR
DEPUTY GENERAL DIRECTOR**

(Signed and sealed)

Tran Huu Nam

VN 4-0073532

I, the undersigned Ms. Pham Thi Hai
I.D card: 142511542, issued on February 10th, 2011 at Hai Duong
undertaken that I have translated accurately this document from
Vietnamese into English

Date: 08.12.2014

Tôi, Phạm Thị Hải
CMND số: 142511542 cấp ngày 10/02/2011 tại Hải Dương
Cam đoan đã dịch chính xác, phù hợp nội dung văn bản từ
Tiếng Việt sang Tiếng Anh.

Ngày 08 tháng 12 năm 2014
NGƯỜI DỊCH

Phạm Thị Hải

CERTIFICATION OF JUSTICE DIVISION

It is to certify that Ms. Pham Thi Hai
I.D card: 142511542, issued on February 10th, 2011 at Hai Duong
has appeared before me and subscribed signature at the Justice Division of
Chuong My District, Hanoi City.

Notarized No.: 9826 Volume No.: 01 SCT/CK
Date: 08.12.2014

CHỨNG THỰC CỦA PHÒNG TƯ PHÁP

Chứng thực bà Phạm Thị Hải, CMND số: 142511542 cấp ngày 10/02/2011 tại
Hải Dương đã ký trước mặt tôi tại Phòng tư pháp Chương Mỹ, Thành phố Hà Nội
Số Chứng thực: 9826 Quyền số: 01 SCT/CK

Ngày 08 tháng 12 năm 2014

PHÒNG TƯ PHÁP



TRƯỞNG PHÒNG
Vũ Thị Chung

CERTIFICATE OF BRAND REGISTRATION NO.: 73532

Brand sample:



Brand color: Red and yellow

Type of brand: Normal

Other content:

List of products/ services carrying brand:

- Group 35:** Business in exporting and importing products of technology, building material, machineries, equipment, project management; making bidding document for erecting, shopping goods, electing consultant; verifying general estimation, settling construction works, drainage and environment works.
- Group 36:** Consulting investment, investing civil work, industrial work, engineering infrastructure, environment hygiene in resident area; investing and trading housing development, civil work, industrial work, engineering infrastructure, environment hygiene in resident area; planning construction investment project of civil work, engineering infrastructure, environment hygiene, industrial work, transportation, irrigation and engineering infrastructure.
- Group 37:** Total bidding of construction, supervision of construction execution and equipment installation; construction execution of civil work, industrial work, engineering infrastructure; testing, repairing and recovering pressured equipment warranty, building machines, technology equipment; quality control, determining damaged reason, evaluate remaining value

and making resolution for repairing construction work, means of transportation; interior and exterior decoration

Group 41:

Training in field of transferring building technology and building material.

Group 42:

Survey, design detailed planning and design civil work, drainage and environment work, industrial work, transportation work, irrigation work and engineering infrastructure; consult to make construction quality assurance system; analyzing and assessing the bidding documents for the construction, purchasing goods, selecting consultancy; construction materials and construction structure testing; researcher for construction and building material technology transfer, Designing construction machines, technology equipments; engineering transfer of specialized equipments; making reports for impact assessment of environment, monitoring impacts of environment to quality of construction, industrial works and urban, rural infrastructure; inspecting investment projects, engineering design.

CERTIFICATE OF BRAND REGISTRATION NO.: 73532

Modification, extension:

MODIFYING Certificate of Brand Registration No.: 73532

Modified section: name and/ or address of diploma owner

New content: CONSULTANT AND INSPECTION JOINT STOCK COMPANY OF
CONSTRUCTION TECHNOLOGY AND EQUIPMENT – CONINCO (VN)

No. 4, Ton That Tung Street, Dong Da District, Ha Noi City

Modification Decision No.: 16869/QD-SHTT, dated 31.10.2007

EXTENDING Certificate of Brand Registration No.: 73532

To date: 23.05.2023

Extension Decision No.: 60708/QD-SHTT, dated 30.10.2013



MANAGEMENT SYSTEM CERTIFICATE

Certificate no.:
10000309393-MSC-JAS-ANZ-VNM

Initial certification date:
11 November 2001

Valid:
11 November 2022 – 10 November 2025

This is to certify that the management system of

Consultant and Inspection Joint Stock Company of Construction Technology and Equipment (CONINCO.,JSC)

4 Ton That Tung Street, Trung Tu Ward, Dong Da District, Ha Noi City, Vietnam

has been found to conform to the Quality Management System standard:

ISO 9001:2015

This certificate is valid for the following scope:

Provision of Consultant & Inspection services in Construction

Place and date:
Singapore, 25 September 2022

For the issuing office:
DNV - Business Assurance
16 Science Park Drive, DNV Technology
Centre, 118227, Singapore



Saravanan Gopal
Management Representative

Lack of fulfilment of conditions as set out in the Certification Agreement may render this Certificate invalid.

Accreditation by the joint accreditation system of Australia and New Zealand (www.jas-anz.org/register)
ACCREDITED UNIT: DNV Business Assurance Australia Pty Limited, Level 7, 124 Walker Street, North Sydney, NSW, 2060, Australia
TEL: +61 2 9900 9500. <https://www.dnv.com.au/assurance/>

TRANSLATION/ BẢN DỊCH

MINISTRY OF CONSTRUCTION
AGENCY OF CONSTRUCTION
ACTIVITIES MANAGEMENT

SOCIALIST REPUBLIC OF VIETNAM
Independence – Freedom – Happiness

**CERTIFICATE
OF CONSTRUCTION ACTIVITY CAPACITY**
No.: BXD-00000114

(Issued with Decision No. 25/QĐ-HĐXD-DN dated June 14, 2022 and
Decision on extension No. 47/QĐ-HĐXD-DN dated December 21, 2021)

Organization name: CONSULTANT AND INSPECTION JOINT STOCK COMPANY OF
CONSTRUCTION TECHNOLOGY AND EQUIPMENT (CONINCO.,JSC)

Business Registration Certificate/Establishment Decision No: 0100106169

Issued date: January 24, 2007

Issued place: Hanoi Authority for Planning and Investment

Legal representative:

Mr. Nguyen Van Cong

Position: Chairman of the Board of Management

Head office: No. 4 Ton That Tung, Trung Tu Ward, Dong Da District, Hanoi City

Tel: 024.3852.3706

Fax:

E-mail:

Website:

Scope of construction:

1. Construction survey: Class I

2. Design, construction design verification:

- Civil works; Industrial works; Traffic works; Technical infrastructure works, works
serving agriculture and rural development (irrigation): Class I

3. Construction supervision:

- Civil works; Industrial works; Traffic works; Technical infrastructure works, works
serving agriculture and rural development (irrigation): Class I

4. Project management of construction investment projects:

- Civil works; Industrial works; Traffic works; Technical infrastructure works, works
serving agriculture and rural development: Class I

5. Construction planning:

- Design construction planning: Class I

This Certificate is valid until December 21, 2031.

Hanoi, June 14, 2022

DIRECTOR
(Signed and sealed)
Hoang Quang Nhu

TRANSLATION

MINISTRY OF INDUSTRY AND TRADE
ELECTRICITY REGULATORY
AUTHORITY OF VIETNAM

SOCIALIST REPUBLIC OF VIETNAM
Independence – Freedom – Happiness

No.: 54/GP-DTDL

Hanoi, March 31, 2021

ELECTRICITY ACTIVITY LICENSE

DIRECTOR GENERAL

OF ELECTRICITY REGULATORY AUTHORITY OF VIETNAM

Pursuant to Decision No. 3771/QĐ-BCT dated October 2, 2017 of Ministry of Industry and Trade
stipulating functions, duties, powers and organizational structure of Electricity Regulatory Authority of
Vietnam;

Pursuant to Electricity Law dated December 3, 2004; Law on amending and supplementing several
articles of Electricity Law dated November 20, 2012;

Pursuant to Decree No. 137/2013/ND-CP dated October 21, 2013 of the Government stipulating in
details the implementation of several articles of Electricity Law and Law on amending and supplementing
several articles of Electricity Law;

Pursuant to Decree No. 08/2018/ND-CP dated January 15, 2018 of the Government amending several
Decrees relating to conditions for business investment within the state management scope of Ministry of
Industry and Trade;

Pursuant to Decree No. 17/2020/ND-CP dated February 5, 2020 of the Government amending and
supplementing several articles of the Decrees relating to conditions for business investment within the state
management scope of Ministry of Industry and Trade;

Pursuant to Circular No. 21/2020/TT-BCT dated September 9, 2020 of Minister of Industry and Trade
stipulating order and procedures of issuing electricity activity license;

Considering the application and dossier requesting the issuance of electricity activity license of
Consultant and Inspection Joint Stock Company of Construction Technology and Equipment – CONINCO;

Considering the request of Head of Licensing and Public Relations Department,

DECIDES:

Article 1. To issue electricity activity license to

1. Name of the organization: Consultant and Inspection Joint Stock Company of Construction
Technology and Equipment – CONINCO

2. Business registration certificate No. 0100106169 issued by Hanoi Department of Planning and
Investment on January 24, 2007, the 7th registration of change dated February 22, 2018.

3. Registered headquarters: No.4, Ton That Tung Street, Trung Tu Ward, Dong Da District, Hanoi.

Tel.: 024.38523706

Fax: 024.35741708

Article 2. Field(s) of operation

1. Consulting service for designing projects of solar power plants with installed capacity of up to
100MW.

2. Consulting service for designing transmission lines and substations with voltage level of up to 110
kV.

TRANSLATION

3. Consulting service for supervising the construction of hydropower plants with installed capacity of up to 100MW.
4. Consulting service for supervising the construction of solar power plants with installed capacity of up to 100MW.
5. Consulting service for supervising the construction of wind power plants with installed capacity of up to 300MW
6. Consulting service for supervising the construction of transmission lines and substations with voltage level of up to 220kV.

Article 3. Scope and validity period

1. Scope of operation: Nationwide
2. Validity period of the license: to March 30, 2026

Article 4. Rights of the entity to which the license is issued:

1. Consultant and Inspection Joint Stock Company of Construction Technology and Equipment – CONINCO has the right to operate in the fields and within the scope stated in the electricity activity license.
2. Consultant and Inspection Joint Stock Company of Construction Technology and Equipment – CONINCO has the rights stipulated in Article 45 of Electricity Law (amended and supplemented) and other rights as prescribed by the law.

Article 5. Obligations of the entity to which the license is issued:

1. Consultant and Inspection Joint Stock Company of Construction Technology and Equipment – CONINCO is obliged to deploy operations no later than 06 months from the date of issuing the electricity activity license.
2. Consultant and Inspection Joint Stock Company of Construction Technology and Equipment – CONINCO is obliged to ensure conditions for electricity activities as prescribed by the law throughout operation time.
3. Consultant and Inspection Joint Stock Company of Construction Technology and Equipment – CONINCO is not to lease, lend or deliberately alter the electricity activity license.
4. Consultant and Inspection Joint Stock Company of Construction Technology and Equipment – CONINCO is obliged to implement the report regimes as prescribed.
5. Consultant and Inspection Joint Stock Company of Construction Technology and Equipment – CONINCO is obliged to comply with regulations in Article 45 of Electricity Law (amended and supplemented) and instruction documents.

Article 6. Validity

This Electricity Activity License takes effect from the date of signing and replaces Electricity Activity License No. 167/GP-DTDL dated June 30, 2020 issued by Electricity Regulatory Authority of Vietnam to Consultant and Inspection Joint Stock Company of Construction Technology and Equipment – CONINCO /.

DIRECTOR GENERAL

Nguyen Anh Tuan
(Signed and sealed)

MINISTRY OF PUBLIC SECURITY
HANOI FIRE FIGHTING AND
PREVENTION POLICE DEPARTMENT

No. 60/GXN-PCCC

SOCIALIST REPUBLIC OF VIETNAM
Independence - Freedom - Happiness

BẢN DỊCH

Form No. PC22
Issued together with
Circular No.
66/2014/TT-BCA
dated 16/12/2014

**CERTIFICATE OF
ELIGIBILITY TO PROVIDE FIRE SAFETY SERVICES**

Pursuant to Decree No. 79/2014/ND-CP dated 31/07/2014 detailing a number of articles of the Law on Fire Prevention and Fighting and the Law amending and supplementing a number of articles of the Law on Fire Prevention and Fighting;

Pursuant to Article 19 of Circular No. 66/2014/TT-BCA dated 16/12/2014 of Minister of Public Security detailing implementation of a number of articles of Decree No. 79/2014/ND-CP dated 31/07/2014 detailing a number of articles of the Law on Fire Prevention and Fighting and the Law amending and supplementing a number of articles of the Law on Fire Prevention and Fighting;

Pursuant to results of examination of documents requesting certification of eligibility to provide fire safety services for enterprise, establishment in report dated 24/04/2018 of Hanoi Fire Fighting and Prevention Police Department;

Considering dossiers and the request of Consultant and Inspection Joint Stock Company of Construction Technology and Equipment - CONINCO

HANOI FIRE FIGHTING AND PREVENTION POLICE DEPARTMENT

HEREBY CERTIFIES

Consultant and Inspection Joint Stock Company of Construction Technology and Equipment - CONINCO

Certificate of Business Registration (or Certificate of Operation Registration):

No. 0100106169 registered for the first time dated 24/01/2007, the 7th registration of change dated 22/02/2018.

Issued by: Business Registration Office - Hanoi Department of Planning and Investment

Registered office: No. 4 Ton That Tung, Trung Tu Ward, Dong Da District, Hanoi City.

Legal representative: Nguyen Van Cong

Title: Chairman of Management Board

ID Card/ Passport No. 011706498 issued on 03/03/2006

Issued by: Hanoi City's Public Security

Permanent residence: R14a 116 Thanh Cong 2 Collective Area, Lang Ha Ward, Dong Da District, Hanoi City.

Is eligible to provide fire safety services.

(according to list of business lines in page 2)

Recipients:

- C66-BCA (to report);
- As above;
- Archived.

Hanoi, April 26, 2018

DIRECTOR

(signed and sealed)

Major General. Hoang Quoc Dinh

[illegible]

Vu Ngoc Anh

LIST OF TESTING CRITERIA OF LABORATORY LAS-XD 60

(Attached to the Certificate of Qualification for the Specialized Construction Experiments
No.23/GCN-BXD dated February 21, 2023 of the Minister of Construction)

No.	Name of testing criteria	Technical standards (*)
Mechanical testing for cement		
1	Determination of fineness, specific gravity of cement	TCVN 4030: 2003
2	Determination of bending and compressive strength	TCVN 6016:2011
3	Determination of standard plasticity, volumetric stability	TCVN 6017:2015
4	Determination of the setting time	TCVN 8875:2012
Test of concrete mix and heavy concrete		
5	Determination of the slump of the concrete mix	TCVN 3106:2022
6	Determination of water separation, mortar separation	TCVN 3109:2022
7	Determination of specific gravity	TCVN 3112:2022
8	Determination of water absorption	TCVN 3113:2022
9	Determination of weight and volume	TCVN 3115:2022
10	Determination of waterproofing	TCVN 3116:2022
11	Determination of contraction	TCVN 3117:2022
12	Determination of the compression strength	TCVN 3118:2022
13	Determination of tensile strength when bending	TCVN 3119:2022
14	Determination of the tensile strength limits along the shaft	TCVN 3120:2022
Concrete aggregate testing for concrete and mortar		
15	Determination of particle size composition	TCVN 7572-2:2006
16	Determination of specific gravity, volume and water absorption	TCVN 7572-4:2006
17	Determination of specific gravity, weight, volume and water absorption of original rock and mass aggregate	TCVN 7572-5:2006
18	Determination of weight volume and porosity	TCVN 7572-6:2006
19	Determination of moisture	TCVN 7572-7:2006
20	Determining the content of mud, dust, clay in aggregate and clay content in small aggregate	TCVN 7572-8:2006
21	Determination of organic matter	TCVN 7572-9:2006
22	Determination of strength and softening factor of the original stone	TCVN 7572-10:2006
23	Determination of compressive strength and softening coefficient in mass aggregate	TCVN 7572-11:2006
24	Determination of wear and tear of mass aggregate (Los Angeles)	TCVN 7572-12:2006
25	Determination of fine particle content in mass aggregate	TCVN 7572-13:2006
26	Determination of the ability of alkali-silicon reaction	TCVN 7572-14:2006

27	Determination of ionic content Clo (Cf)	TGVN 7572-15:2006
28	Determination of soft seed content, weathering	TCVN 7572-17:2006
Asbestos cement corrugated sheets		
29	Determination of water penetration time	TCVN 4435:2000
30	Determination of breaking load	TCVN 4435:2000
Mechanical test for construction mortar		
31	Determination of the mobility of fresh mortar	TCVN 3121-3:2022
32	Determination of weight volume of fresh mortar	TCVN 3121-6:2022
33	Determination of the ability of the mortar to retain its mobility	TCVN 3121-8:2022
34	Determination of weight volume of cured mortar samples	TCVN 3121-10:2022
35	Determination of bending and compressive strength of cured mortar	TCVN 3121-11:2022
36	Determination of the water absorption of the cured mortar	TCVN 3121-18:2022
Mechanical test for brick made of clay		
37	Determination of shape size and defects	TCVN 6355-1:2009
38	Determination of compressive strength	TCVN 6355-2:2009
39	Determination of bending strength	TCVN 6355-3:2009
40	Determination of water absorption	TCVN 6355-4:2009
41	Determination of weight volume	TCVN 6355-5:2009
42	Determination of porosity	TCVN 6355-6:2009
43	Determination of peeling due to lime	TCVN 6355-7:2009
44	Determination of salt drainage	TCVN 6355-8:2009
Testing concrete brick, self-inserting brick, Terazo brick		
45	Determination of size, bond defect, color, porosity, Determination of compressive strength, bending strength, Determination of water absorption, abrasion resistance, water permeability.	TCVN 6477:2016; TCVN 6476:1999; TCVN 7744:2013; TCVN 6065:1995
Mechanical test for aerated concrete brick AAC; foam concrete brick, ACC wall panels		
46	Determination of size, bond defect, Determination of compressive strength, volumetric dry weight, dry shrinkage, humidity, water absorption	TCVN 9030:2017; TCVN 12868:2020
Testing of artificial stone flooring		
47	Determination of the size, dimensional stability and quality of the surface	TCVN 6415-2:2016;TCVN 8057:2009; TCVN 4732:2016; TCVN 7744:2013 BS EN 1341; BS EN 14617; EN 13373
48	Determination of water absorption, weight volume and porosity	TCVN 6415-3:2016 EN 13755; BS EN 14617; ASTM C97; BSEN 14617; EN 1936
49	Determination of bending strength	TCVN 6415-4:2016

		ASTM C99/ ASTM C880; EN 12372; BSEN 14617; ASTM C880
50	Determination of surface abrasion resistance, deep abrasion	TCVN 6415-6:2016; TCVN 6415-7:2016; TCVN 4732:2016 ASTM C241; BS EN 14617; EN 14157
51	Determination of thermal shock resistance	TCVN 6415-9:2016; BS EN 14617
52	Determination of enamel cracking durability	TCVN 6415-11:2016
53	Determination of chemical stability	TCVN 6451-13:2016; BS EN 14617
54	Determination of fouling resistance	TCVN 6415-14:2016
55	Determination of resistance to slippage/slip/coefficient of friction	TCVN 6415-17:2016; EN 14231
56	Determination of surface hardness	TCVN 6415-18:2016
57	Determination of compressive strength	BSEN 14617/ASTMC170
58	Long coefficient of thermal expansion	TCVN 6415-8:2016
59	Warm expansion coefficient	TCVN 6415-10:2016
	Glass testing	
60	Determination of visual defects; define geometric dimensions; the warp; optical distortion	TCVN 7219:2018; ASTM C1036; ASTM C 1503; EN 572; JIS R 3209; JIS R 3205; JIS R3206; JIS R 3222; AS/NZS 2208; TCVN 6758:2015; BS EN 1036-1; ASTM C 1503
61	Determination of pattern deviation	TCVN 7527:2005
62	Determination of steel mesh deviation	TCVN 7456:2004
63	Determination of impact resistance	TCVN 7368:2013; TCVN 6758:2015; JIS R 3205; JIS R3206; BS 6206; AS/NZS 2208; ANSI Z97.1
64	Determination of high temperature resistance (humid conditions; dry conditions); Determination of moisture resistance	TCVN 7364:2018; TCVN 6758:2015; TCVN 9808:2013; JIS R3205; AS/NZS 2208; ANSI Z97.1;
65	Determination of the stress of the glass surface and glass edges; amount of broken glass	TCVN 7455:2013; TCVN 8261:2009; JIS R 3222; JIS R 3206; BS 6206; AS/NZS 2208; ANSI Z97.1; TCVN 6758:2015
66	Determination of paint adhesion on protective surfaces	TCVN 7625:2007
67	Determination of radiation resistance	TCVN 7364:2018; TCVN 7528:2005
68	Determination of resistance to acid, alkali, water	TCVN 7528: 2005; TCVN 9808:2013;

		TCVN 1046:2004
69	Determination of dew point, Determination of tightness	JIS R 3209; TCVN 8260:2009
70	Determination of salt spray resistance	BS EN 1036, EN ISO 9277; ASTM B1 17; TCVN 7625:2007
71	Determination of the thickness of the silver, copper and mirror layers	TCVN 7625:2007
72	Determination of abrasion resistance	TCVN 6758:2015; TCVN 7528:2005
73	Determination of heat transfer coefficient, insulation coefficient	TCVN 8260:2009; TCVN 9502:2013 ASTM 0518:2010; ASTM C 1155/C1046; JIS R 3107; NFRC 100
74	Determination of optical indicators: Light transmission/reflection; transmit/reflect direct solar radiation energy; total transmitted solar radiation energy (SHGC); Determination of ultraviolet radiation penetration; solar heat blocking coefficient; radiation coefficient	TCVN 7737:2007; TCVN 8260:2009; TCVN 7625:2007; TCVN 7529:2005; TCVN 7528:2005; ISO 9050; EN 410; NFRC 200/300; ASTM E903; JIS R 3209; JIS R3106
	Testing paint, putty, waterproofing materials	
75	Determination of the setting time	ISO 9597:2008; TCVN 6017:2015
76	Determination of water retention; Determination of adhesion strength; Determination of surface hardness	TCVN 7239:2014; ASTM D3363; TCVN 2098:2007
77	Determination of fineness	TCVN 2091:2015
78	Determination of viscosity	TCVN 2092:2013; ASTM D 2196
79	Determination of coverage	TCVN 2095:1993
80	Determination of drying time; Determination of heat resistance; Determination of water penetration, Determination of durability	TCVN 2096-1:2015; TCVN 6557:2000
81	Determination of paint film adhesion	TCVN 2097:2015
82	Determination of the flexural strength of the film	TCVN 2099:2013
83	Determination of impact resistance	TCVN 2100-2:2013/ISO 6272-2;
84	Determination of gloss	TCVN 2101:2016; ISO 2813:2014
85	Determination of color	TCVN 2102:2008
86	Determination of the water resistance of the paint array	TCVN 8653-2:2012
87	Determination of alkali resistance	TCVN 8653-3:2012; TCVN 9014:2011
88	Determination of drift	TCVN 8653-4:2012
89	Determination of hot and cold cycles	TCVN 8653-5:2012
90	Determination of water permeability	TCVN 8652:2020
91	Paint state in container, application properties and low temperature stability, paint patch appearance;	TCVN 8653-1:2012 TCVN 9014:2011

	Determination of uniformity	
92	Determination of volatile organic matter	TCVN 10370:2014; TCVN 10369:2014
93	Determination of moisture resistance	ASTM D2247
94	Determination of salt water tolerance, Determination of life time; Determination of the content of non-volatile substances	TCVN 9014:2011; TCVN 2093:1993
95	Determination of environmental tolerance	TCVN 8789:2011
Testing plaster ceiling panels		
96	Determination of the size and depth of the tapered edge	TCVN 8257-1:2009
97	Determination of the hardness of edges, cores, and edges; bending strength, nail removal resistance	TCVN 8257-2-4:2009
98	Determination of moisture deformation, water absorption, surface water absorption, water vapor permeability	TCVN 8257-5-8:2009
99	Determination of volatile sulfur compounds	ASTM 471M:16a
Testing fiber cement ceiling panels		
100	Determination of the size	TCVN 8259-1:2009
101	Determination of bending strength	TCVN 8259-2:2009
102	Determination of moisture elasticity, heat and cold cycle durability, and water resistance	TCVN 8259-4,5,6:2009
103	Determination of hot water resistance	TCVN 8259-7:2009
Mechanical testing of BENTONITE solution		
104	Determination of density; stability; viscosity, pH, static shear, sand content, clay coat thickness, amount of water separation, glue ratio	TCVN 11893:2017
Testing walls, windows, doors		
105	Determination of size; bonded defects	TCVN 7452:2004; TCVN 7451:2004; TCVN 9366:2012
106	Opening and closing force	TCVN 7452:2004; TCVN 9366:2012 ISO 8274
107	Water tightness; air permeability/tightness; sound damping	TCVN 7452-1-2:2021; AS/NZS 4284:2008; ASTM E331; ASTM E283 EN 1027; AAMA 501.1; AAMA 501.2; EN 12208; EN 1206; EN 12207; SS 212; SS 268; SS 381
108	Structural durability under wind pressure	TCVN 7452-3:2021; AS/NZS 4284 ASTM E330; EN 12210; EN 12211; SS 212; SS 268; SS 381
109	Define texture frame horizontal displacement	AS/NZS 4284
Wood mechanical testing		
110	Determination of the suction level and humidity	TCVN 8046:2009; TCVN 8048-1:2009
111	Compression test perpendicular to the grain	TCVN 8048-5:2009

112	Determination of tensile stress parallel, perpendicular to grain, shear stress parallel to fiber	TCVN 8048-6,7,8:2009
113	Determination of the radial and tangential expansion	TCVN 8048-15:2009
114	Determination of volumetric expansion	TCVN 8048-16:2009
115	Geometric features/dimensions	TCVN 7756-2:07; TCVN 11904:2017; ISO 2433; TCVN 11945-1:2018; TCVN 8574:2010; TCVN 10574:2014
116	Determination of indentation and retention	TCVN 11944:2018; ISO 24343
117	Determination of mechanical joint strength	TCVN 11952:2018; ISO 24334
118	Determination of flexural modulus and flexural strength	TCVN 7756-6:07; TCVN 12446:2018; TCVN 12444:2018; ISO 16978; TCVN 8048-3:2009
119	Determination of the tensile strength perpendicular to the board surface	TCVN 7756-7:07; TCVN 12447:2018
120	Determination of surface durability	TCVN 7756-10:2007; TCVN 11906:2017
121	Determination of the screw holding force	TCVN 7756-11:2007; TCVN 11907:2017
122	Determination of the change in size according to relative humidity	TCVN 10311:15; TCVN 11951:2018
123	Determination of density and volume	TCVN 5694:2014; TCVN 7756-4:2007; TCVN 8574: 2010
124	Determination of the thickness swelling	TCVN 11950:2018; TCVN 7756-5:2007; ISO 16983; TCVN 12445:2018
125	Try soaking and separating; Cyclic high and low temperature test	TCVN 11204:2015
126	Determination of formaldehyde content	TCVN 11899-1:2020; TCVN 7756-12:2007; TCVN 11899-1:2020; TCVN 7756-12:2007
Mechanical testing of asphalt concrete		
127	Determination of stability, ductility Marshall	TCVN 8860-1:2011
128	Determination of resin content by extraction method using a centrifuge	TCVN 8860-2:2011
129	Determination of grain composition	TCVN 8860-3:2011
130	Determination of the maximum density and density of asphalt concrete in its loose state	TCVN 8860-4:2011
131	Determination of the bulk density and volume of compacted asphalt concrete	TCVN 8860-5:2011
132	Determination of plastic flow	TCVN 8860-6:2011
133	Determination of the angle of sand	TCVN 8860-7:2011
134	Determination of the compaction coefficient	TCVN 8860-8:2011
135	Determination of residual voids	TCVN 8860-9:2011
136	Determination of aggregate porosity	TCVN 8860-10:2011
137	Determination of plastic fill porosity	TCVN 8860-11:2011

138	Determination of residual stability of asphalt concrete	TCVN 8860-12:2011
Bitumen plastic testing		
139	Determination of needle penetration	TCVN 7495:2005
140	Determination of elongation	TCVN 7496:2005
141	Determination of softening point temperature	TCVN 7497:2005
142	Determination of flash point and fire point with Cleveland open cup tester	TCVN 7498:2005
143	Determination of mass loss after heating	TCVN 7499:2005
144	Determination of solubility in Trichloroethylene	TCVN 7500:2005
145	Determination of specific volume	TCVN 7501:2005
146	Determination of kinematic viscosity (Brookfield)	TCVN 7502:2005
147	Determination of paraffin content	TCVN 7503:2005
148	Determination of adhesion to stone	TCVN 7504:2005
Liquid asphalt testing		
149	Determination of ignition temperature	TCVN 8818-2:2011
150	Determination of water content	TCVN 8818-3:2011
151	Distillation test	TCVN 8818-4:2011
152	Test to Determination of absolute viscosity	TCVN 8818-5:2011
Testing acid asphalt emulsion		
153	Determination of Saybolt Furol viscosity	TCVN 8817-2:2011
154	Determination of sedimentation and storage stability	TCVN 8817-3:2011
155	Determination of oversized particles (Sifter test)	TCVN 8817-4:2011
156	Determination of particle charge	TCVN 8817-5:2011
157	Determination of demulsibility	TCVN 8817-6:2011
158	Mixing test with cement	TCVN 8817-7:2011
159	Determination of adhesion and water resistance	TCVN 8817-8:2011
160	Distillation test	TCVN 8817-9:2011
161	Evaporation test	TCVN 8817-10:2011
162	Identify fast-separating acid asphalt emulsions	TCVN 8817-11:2011
163	Identify slow-separating acid asphalt emulsions	TCVN 8817-12:2011
164	Determination of miscibility with water	TCVN 8817-13:2011
165	Determination of the volume mass	TCVN 8817-14:2011
166	Determination of adhesion to field aggregates	TCVN 8817-15:2011
Testing mortar, tile adhesive, grouting adhesive, and silicone adhesive		
167	Adhesion strength; Open time; Slippage; Compressive strength; Intensity curling; Shrinkage; Wear resistance; Water absorption; Flowability; Punch extrusion ability; Time does not stick to the surface; Determination of Shore A hardness	TCVN 7899 : 2008; TCVN 8267:2009; TCVN 9974:2013
Aluminum composite panels		
168	Identify size and shape deviations; Bending test; Determination of surface wear, Determination of bending strength, elastic modulus; Determination of	TCVN5841 : 1994; ASTM D790-03; ASTM D648-

	pencil hardness	07; ASTM E376; ASTM D523; ASTM D3363; ASTM D4145; ASTM D3359; GB/T 17748; ASTM D968; ASTM D870; ASTM D1308; GB/T 17748; ASTMD903
Compact board, laminate (formica), insulation board		
169	Size deviation, edge straightness, perpendicularity, flatness; Compression strength; Impact resistance; Durability of immersion in boiling water	TCVN 5841:1994; TCVN 5819:1994; ASTM D621; ASTM D5628
Water blocking tape, rubber material		
170	Tensile strength, elongation at break; Shore A hardness; Mass change rate after thermal aging; Specific weight; Chemical resistance, swelling; Tear strength; Water absorption	TCVN 4509:2020; TCVN 9407:2014; TCVN 1595:2007; TCVN 4866:2007; TCVN 2752:2008; TCVN 1597:2006
Testing of metallic materials and welded joints		
171	Determination of tensile strength	TCVN 197-1:2014; ISO 6892-1 ASTM B 557 M; TCVN 12513-2:2018; ISO 6362-2:2014; JIS H 4100; JIS Z2248 JIS z 2244; JIS H 4000; ISO 898-1-7 ASTM A 751
172	Determination of bending test	TCVN 198:2008 (ISO 7438:2005) ISO 6892-1 ASTM B 557 M; TCVN 12513-2:2018; ISO 6362-2:2014 JIS H 4100; JIS z 2248; JIS Z 2244; JIS H4000
173	Destructive testing of welded metal materials: bending test; Impact test	TCVN 5401:2010; TCVN 5402:2010
174	Geometric dimensions	TCVN 12513:2018; TCVN13065:2020
175	Destructive test of welds on metallic materials: horizontal tensile test; try vertical drag	TCVN 8310:2010; TCVN 8311:2010
176	Non-destructive inspection of welds by ultrasonic method	TCVN 6735:2018
177	Determination of metal hardness	TCVN 258-1:2007; TCVN 257-1:2007; TCVN 256-1:2006
178	Determination of coating thickness	TCVN 9406:2012; TCVN 5878 : 2007
179	Tube metal material: flat compression test	TCVN 1830:2008; ISO 8492:1998
180	Determination of metal chemical composition	ASTM E415:2015; ASTM E478:2008; ASTM E1251:2011; TCVN 12513-

		7:2018; ISO 6362-7:2014; JIS II4100; JIS H 4000
	In-lab soil mechanical testing	
181.	Determination of density (density)	TCVN 4195:2012
182.	Determination of humidity and warmth	TCVN 4196:2012
183.	Determination of plastic limit, yield limit	TCVN 4197:2012
184.	Determination of particle size composition	TCVN 4198:2012
185.	Determination of the shear strength on a flat cutter	TCVN 4199:2012
186.	Determination of compressibility in the laboratory	TCVN 4200:2012
187.	Determination of standard tightness	TCVN 4201:2012
188.	Determination of mass (volumetric density)	TCVN 4202:2012
189.	CBR experiment	22TCN 332:2006
	Field testing	
190.	Piles - testing method using axial static load	TCVN 9393:2012
191.	Measure ground resistance	TCVN 9385:2012
192.	Non-destructive method using a combination of ultrasonic meter and bouncing gun to Determination of compressive strength of concrete	TCVN 9335:2012
193.	Determination of the thickness of the protective concrete layer, position and diameter of reinforcement in concrete by electromagnetic method	TCVN 9356:2012
194.	Determination of settlement of civil and industrial constructions using geometric height measurement method	TCVN 9360:2012
195.	Loading test to evaluate durability, hardness and crack resistance	TCVN 9347:2012
196.	Pile testing using large deformation method (PDA)	ASTM D4945
197.	Small strain test (PIT)	TCVN 9397:2012
198.	Identify foreign objects in building structures using a RADA scanner	ASTM D6432:2011
199.	Check the corrosion of steel in concrete	TCVN 9348:2012; ASTM C876:2009
200.	Testing bored piles using ultrasonic method	TCVN 9396:2012
201.	Measure soil density and warmth using the belt knife method	TCVN 8730:2012; 22TCN 02:1971
202.	Determination of the moisture and volume of soil in the structural layer by sand pouring method	TCVN 346:2006; ASTM D1556:06
203.	Determination of the levelness of the road surface using a 3m ruler	TCVN 8864:2011
204.	Determination of the elastic modulus "E" of the roadbed using a hard pressure plate	TCVN 8861:2011
205.	Determination of the general modulus of elasticity "E" of the pavement using a Benkelman rod	TCVN 8867:2011
206.	CBR experiment	TCVN 8821:2011; ASTM-D4429:1992
207.	Non-destructive testing of welded joints: magnetic powder method	TCVN 4396:2018
208.	Non-destructive testing of welds: penetration method	TCVN 4617:2018
209.	Test to check bolt pulling force; bolt cutting force	ASTM E488:2015
210.	Method for determining concrete compressive strength using a rebound gun	TCVN 9334:2012

211.	Concrete - Ultrasonic method to Determination of compressive strength; Concrete - Ultrasonic method to Determination of defects	TCVN 13536:2022; TCVN 13537:2022
212.	Determination of the tilt using the geodetic method	TCVN 9400:2012
213.	- Houses and buildings in the form of towers	TCVN 12252:2020; TCXDVN 239:2006
214.	Method for determining concrete strength on samples taken from the structure	TCVN 9344:2012
215.	Method for evaluating the durability of structural parts subject to bending on construction sites using the static load test method	TCVN 7378:2004; TCVN 6962:2001; TCVN 6963:2001
216.	Method for assessing vibration and shock levels for buildings	TCVN 9490:2012; ASTM C900
	Testing tube	
217.	Determination of appearance and geometric dimensions	TCVN 7305-2:2008; TCVN 6145:2007
218.	Determination of hydrostatic strength; Determination of tightness	TCVN 6149-1-3:2007; EN 1277:2003
219.	Determination of the vertical size change	TCVN 6148:2007
220.	Determination of tensile strength and elongation at break; impact strength, ring hardness, compressive strength determination	TCVN 7434-1-3:2004; TCVN 8850:2007; EN 12256; ISO 13951; ISO 13953; ISO 13954; ISO 13955; ISO 13957; EN 12061; ISO 9854-1-2; EN 744; EN 802; TCVN 10769:2015; TCVN 10967:2015; TCVN 11995:2017
221.	Determination of failure strength under deformation conditions	TCVN 10969:2015
222.	Determination of the softening temperature of vicat	TCVN 6147-1:2003; TCVN 6242:2011
223.	Determination of stability with dictoethane	TCVN 7306:2008
224.	Determination of resistance to chemicals	TCVN 9070:2012
	Cast iron pipes	
225.	Determination of the size	ISO 2531; TCVN 10177:2013
226.	Determination of : tensile strength, hardness	TCVN 10177:2013; TCVN 256:2006; ISO 6506; ISO 2531
227.	Determination of tightness	ISO 2531; TCVN 10177:2013
	Pipes and accessories for the protection and installation of electrical wiring in the home. Cable ladder and cable tray systems used in electrical installation at construction sites	
228.	Determination of size and geometry	TCVN 10688:2015; IEC 61537:2006
229.	Determination of compressive strength; Determination of impact resistance; flexural strength; compressive strength in reading direction	TCVN 10688:15; IEC 61537:06 IEC 61386-1:08; BS EN 61386-1:08
230.	Determination of heat resistance	TCVN 10688:2015; IEC 61537:2006 IEC61386-1:2008; BS EN 61386-1:2008
	Three-layer interlocking lightweight wall panels, precast concrete wall panels	

231.	Determination of size, appearance defects	TCVN 12302:2018; TCVN 11524:2016
232.	Impact resistance	TCVN 11524:2016
233.	Adhesion strength	TCVN 9349:2012
234.	Durability of hanging heavy objects	TCVN 12302:2018; TCVN 11524:2016
Metal suspension system with ceiling panels		
235.	Determination of geometric dimensions; Determination of the load-bearing capacity of the main bar	TCVN 12694:2020; ASTM C635/C635M-17
236.	High humidity test	ASTMD1735
Sanitary ware		
237.	Tolerance, appearance, stain resistance	TCVN 12650:2020/BS 3402 ASTM 112.19.2-18, JIS A 5207
238.	Sealed water depth, discharge characteristics, water absorption	TCVN 12649:2020; TCVN 12651:2020; BS EN 997; ASTM 112.19.2-18, JIS A 5207
239.	Load-bearing capacity, water drainage, scratch resistance, determination of overflow rate	TCVN 12648:2020/BS EN 14688; ASTM 112.19.2-18, JIS A 5207
240.	Appearance, size, water absorption, heat resistance, chemical resistance, enamel cracking, surface hardness, ink absorbency, usability	TCVN 12647:2020
Plastic wood flooring		
241.	Determination of defects in appearance and size; Determination of the size change rate when water absorption, Determination of the size change rate when heated; anti-slip ability	TCVN 11352:2016
242.	Size, shape, edge inspection, screw penetration ability, load capacity	ASTM C645
Roof Tiles		
243.	Determination of appearance and size defects	TCVN 1452:2004; TCVN 9133:2011
244.	Determination of : water absorption, bending load, volume of 1 m2.	TCVN 4313 : 1995
Plastic profile bar		
245.	Determination of the impact resistance of falling balls of profile bars	BS EN 477
246.	Determination of appearance after thermal vulcanization at 150°C; Determination of dimensional stability after thermal vulcanization	BS EN 478; BS EN 479
247.	Determination of weld angle strength; Determination of bending strength	BSEN 12608; EN 514; ISO 178
248.	Determination of Charpy/Izod impact strength	BSEN 12608; ISO 179

Note (*) - Technical standards used for tests are fully listed, including Vietnamese and foreign standards (if any). When there is a new version of a technical standard replacing the old standard, the corresponding new standard must be applied.

LỜI CHỨNG CỦA CÔNG CHỨNG VIÊN/NOTARY TESTIMONY

Hôm nay, ngày 13 tháng 09 năm 2023 (ngày mười ba tháng chín, năm hai nghìn không trăm hai mươi ba)

Today, 13/09/2023 (the thirteenth of September in two thousand twenty three)

Tại trụ sở Văn phòng Công chứng Lại Khánh; Địa chỉ tại: A4 – TT19 KĐT Văn Quán, Yên Phúc, Phường Phúc La, Quận Hà Đông, TP Hà Nội.

At Lai Khanh Notary Office; Address: A4 – TT19 Van Quan urban area, Yen Phuc, Phuc La Ward, Ha Dong District, Hanoi City.

Tôi, công chứng viên, trong phạm vi trách nhiệm của mình theo quy định của pháp luật.

I, Notary Public, within the scope of my liability in accordance with the law.

CHỨNG NHẬN/CERTIFY THAT:

- Bản dịch này do ông Trương Công Đạt, cộng tác viên phiên dịch của Văn phòng Công chứng Lại Khánh, Thành phố Hà Nội dịch từ tiếng Việt sang tiếng Anh;
- This is translation from Vietnamese to English by Mr. Truong Cong Dat, who is translation collaborator of Lai Khanh Notary Office, Hanoi City;
- Chữ ký trong bản dịch đúng là chữ ký của Ông Trương Công Đạt;
- Signature in the translation is the true and authentic signature of Mr. Truong Cong Dat;
- Nội dung bản dịch chính xác, không vi phạm pháp luật, không trái đạo đức xã hội;
- The contents of the translation are correct and do not violate the law or social morality;
- Văn bản công chứng này được lập thành 02 bản chính, mỗi bản gồm 13 tờ, 13 trang, lưu 01 bản tại Văn phòng Công chứng Lại Khánh, thành phố Hà Nội.
- This Notary certificate is made into 02 originals, each original 13 sheets, 13 pages, one of which is retained in Lai Khanh Notary Office, Hanoi City.

Số công chứng: 2 8 0 0, Quyển số 01/2023 TP/CC-SCC/BD.

Notarized No.: 2 8 0 0, Book No.: 01/2023 TP/CC-SCC/BD.

NGƯỜI DỊCH
TRANSLATOR

(Signature)

Trương Công Đạt

CÔNG CHỨNG VIÊN

NOTARY PUBLIC



VŨ THỊ THUY TRANG

No. 338 /GCN-BXD

Hanoi, November 15, 2022

**CERTIFICATE
OF QUALIFICATION FOR SPECIALIZED CONSTRUCTION
EXPERIMENTS**

Pursuant to the Government's Decree No. 52/2022/ND-CP of August 08, 2022 defining the functions, tasks, powers and organizational structure of the Ministry of Construction;

Pursuant to the Government's Decree No. 62/2016 /ND-CP of July 01, 2006, providing for the conditions for conducting construction judicial activities and the experiments specialized in construction;

Pursuant to Circular No. 06/2017/TT-BXD dated April 25, 2017 of the Ministry of Construction providing guidance on specialized construction testing activities;

Considering the dossier for re-granting the certificate of qualification for specialized construction experiments Branch of Consultant and Inspection Joint Stock Company of Construction Technology and Equipment - CONINCO (Hanoi City) and the minutes evaluating the specialized construction experiments dated October 29, 2022,

HEREBY CERTIFIES THAT

Branch of Consultant and Inspection Joint Stock Company of Construction Technology and Equipment-CONINCO (Hanoi City),

Tax code: 0100106169001

Address: No. 34 Pho Quang, Ward 02, Tan Binh District, Ho Chi Minh City

Laboratory Name: Laboratory for Construction Materials and Works Inspection

Address: No. 34 Pho Quang, Ward 02, Tan Binh District, Ho Chi Minh City

Is eligible for operating the specialized construction experiments with the testing criteria stated in the list enclosed to this certificate.

2. **Laboratory Code: LAS-XD 196**

3. **This certificate is valid for 05 years from the date of issuance, replaces the Certificate No.806/GCN-BXD dated November 26, 2018 of the Ministry of Construction./.**

Recipients:

- Branch of Consultant and Inspection Joint Stock Company of Construction Technology and Equipment – CONINCO (Hanoi City);
- Ho Chi Minh City Department of Construction
- Information Center (website);
- Saved: Office, Department of Science, Technology & Environment

BY ORDER OF MINISTER

**Director of the Department of Science,
Technology and Environment**

(Signed and sealed)

Vu Ngoc Anh

LIST OF TESTING CRITERIA OF LABORATORY LAS-XD 196

(Attached to the Certificate of Qualification for the Specialized Construction Experiments

No.338/GCN-BXD dated November 15, 2022 of the Minister of Construction)

No.	Name of testing criteria	Technical standards (*)
CEMENT TESTING		
	Testing fineness, specific surface, specific gravity	TCVN 4030:2003; ASTM C188, C184, C150, C204; AASHTO T133, T153, T192, T128; JIS R5201; BS 4550, BS EN 196
	Bending and compression limit testing	TCVN 6016:2011; ASTM C109, C348, C349, C190; AASHTO T106; JIS R5201; ISO 679; BS 4550, BSEN 196
	Testing standard plasticity, setting time and volume stability	TCVN 6017:2015; TCVN 10653:2015; ASTM C191, C187, C185, C150; AASHTO T131, T129; JIS R5201; ISO 9597; BS EN 196
	Heat of hydration experiment	TCVN 11970:2018, TCVN 6070:2005; ASTM C186, C185, C18; JIS R5203; BS EN 196
	Change in mortar bar length in sulfate environment	TCVN 7713:2007; ASTM C1012
	Testing Sulfate swelling	TCVN 6068:2004; ASTM C452
	Cement - Sampling method and test sample preparation	TCVN 4787:2009; ASTM C183; AASHTO T127
	Cement chemical analysis experiment	TCVN 141:2008; TCVN 6820:2001; ASTM C114, C150, C452; AASHTO T105; BS EN 196
	Testing smoothness, specific surface, specific gravity	TCVN 4030:2003; ASTM C188, C184, C150, C204; AASHTO T133, T153, T192, T128; JIS R5201; BS 4550, BS EN 196
2	CONCRETE MIX AND CONCRETE	
	Sampling, preparation and test sample preparation	TCVN 3105:2022; ASTM C172; C42; AASHTO T141; T23; T24; T126; JIS AI 107 ; BS 1881
	Slump test of concrete mixture	TCVN 3106:2022; ASTM C143; AASHTO T19; JIS AI 101; ISO 1920 ;BS 1881; BS EN 12350
	Vebe hardness test of concrete mixture	TCVN 3107:2022; ASTM C1170; BS 1881; BS EN 12350
	Testing the volume of concrete mixture	TCVN 3108:2022; ASTM C138; AASHTO T121; JIS AI116; BS 1881; BS EN 12350
	Testing water separation and mortar separation of concrete mixtures	TCVN 3109:2022; ASTM C232, C940; AASHTO T158; JIS AI 123 ; BS EN 12350; BS EN 480
	Experiment to analyze concrete mixture composition	TCVN3110 :1993
	Testing air bubble content of concrete mixture	TCVN 3111: 2022; ASTM C231, C185, C173, C138, C137; AASHTO T152; JIS AI 128; BS EN 12350
	Testing specific gravity of concrete	TCVN 3112:2022; ASTM C642; BS 1881; BS EN 12390
	Testing the water absorption of concrete	TCVN 3113:2022; ASTM C642; BS 1881; BS EN 12390
	Testing the abrasion of concrete	TCVN 3114:2022; ASTM C779, C131
	Testing the volume of concrete	TCVN 3115:2022; ASTM C642; AASHTO T121; BS 1881; BS EN 12390

	Testing the water resistance of concrete	TCVN 3116:2022; ASTM C403; BS EN 12390
	Testing the permeability coefficient and penetration depth of concrete	TCVN 8219:2009; ASTM C1585 ; BS EN 12390
	Testing shrinkage of concrete	TCVN 3117:2022; ASTM C157; AASHTO TI60; JIS AI 129
	Testing compressive strength of concrete	TCVN 3118:2022; ASTM C39, C42, C873; AASHTO TI 40, T22, T24; JIS AI 108, AI 107; BS 1881; BSEN 12390
	Testing the bending tensile strength of concrete	TCVN 3119:2022; ASTM C78, C293; AASHTO T97, T177; JIS AI 106, AI 114; BS 1881; BS EN 12390
	Testing tensile strength when chipping of concrete	TCVN 3120:2022; ASTM C496; AASHTO T198; JIS A1113; BSEN 12390
	Testing the axial tensile strength of concrete	CRD 164 :92
	Experiment to determine the setting time of concrete mixture	TCVN 9338 :2012; ASTM C403; AASHTO TI 97
	Testing the pH of concrete mix	TCVN 9339:2012
	Experiment to determine temperature in concrete mixture	TCVN 9340:2012; ASTM C1064; AASHTO T309; JIS AI 156
	Experiment on prism strength and elastic modulus under static compression	TCVN 5726:2022; ASTM C469, C403; JIS AI 127, AI 149
	Testing the flow of concrete mixture	ASTM C1611; JISA1150
	Testing surface tensile strength and adhesion strength with direct glue	TCVN 9491:2012; ASTM C1583
	Determining concrete mix composition - Decision 778/1998/QD-BXD	TCVN 9382:2012, TCVN 10306:2014, TCVN 10796:2015, TCVN 12631:2020; ACI211.1
3	CONCRETE AGGREGATE AND MORTAR	
	Sample; Determine grain size composition and magnitude modulus; Determine petrographic composition; Determine density, volumetric mass and water absorption; Determine foam volume and porosity; Determination of humidity; Determine the content of mud, dust, clay in aggregates and lump clay content in small aggregates; Determination of organic impurity content; Determine the strength and softening coefficient of the original rock; Determine the compressibility and softening coefficient of large aggregates; Determination of impact wear of large aggregates (Los Angeles); Determination of flat rhombic particle content in large aggregates; Determination of softness and weathering content; Determination of mica content; Determination of chloride content (Cl); Determination of sulfate and sulfite content; Determine the content of broken grains; Determination of sodium chloride (NaCl) salt content in aggregates	TCVN 7572:2006; ASTM C29, C33, C40, C70, C127, C128, C131, C136, C142, C170, C227, D546, C566, C1152, C1218; AASHTO TI 1, TI 9, T21, T27, T30, T37, T84, T85, T96, TI 12, T255, T327, T335 ; BS 812 ; BS EN 1097 ; BS EN 933

	Sand equivalent coefficient (ES) experiment	ASTM D2419; AASHTO TI76
	Testing of crushed sand for concrete and mortar	TCVN 9205:2012
	Testing light particle content in aggregates	ASTM C123; AASHTO TI 13; JIS AI 141
	Test content smaller than 0.075mm sieve	ASTM C117; AASHTO TI 1; JIS AI 103
	Chemical corrosion test	ASTM C88; AASHTO T104; JIS AI 122
	Testing the angularity of aggregates	TCVN 8860-7:2011; TCVN 11807:2017; ASTM DI 183, D5821; AASHTO T304, T326
	Experiment on PSV polishing value	ASTMD3319
4	CHEMICAL ADDITIVES, ACTIVE ADDITIVES FOR CONCRETE	
	Dry matter content testing; ash content; specific weight; Chlorine ion content; water reducing ability; PH; Determine the properties of concrete and concrete mixtures	TCVN 8826:2011; TCVN 9393:2011; TCVN 11586:2016; TCVN 12301:2018; TCVN 12588:2018; ASTM C494, C1017, D1475, E70; AASHTO M194; JIS A6204
	Physical and mechanical testing of fly ash active additives	TCVN 10302:2014; TCVN 8262:2009
	Physical and mechanical testing of mineral additives for cement	TCVN 6882:2001
	Physical and mechanical testing of mineral additives for roller compacted concrete	TCVN 8825:2011
	Physical and mechanical testing of highly active mineral additives for concrete and mortar - Silicafume and finely ground rice husk ash	TCVN 8827:2011
5	CONSTRUCTION SOIL AND BALLAST	
	Specific gravity (density) experiment	TCVN 4195:2012, TCVN 8735:2012; ASTM D5550, D854; AASHTO T100; JIS A1202; BS 1377
	Humidity and hygroscopicity testing	TCVN 4196:2012, TCVN 8728:2012; ASTM D4959, D4643, D2216; AASHTO T239, T265; JIS A1203; BS 1377
	Testing of creep limit and yield limit	TCVN 4197:2012; ASTM D4318 ; AASHTO T89, T90; JIS A1205; BS 1377
	Experiment on grain composition	TCVN 4198:2014; ASTM D422, DI 140, C136; AASHTO T88, T27; JIS A1204; BS 1377
	Cutting resistance test on flat cutting machine	TCVN 4199:1995; ASTM D3080; AASHTO T236; BS 1377
	Compaction settlement test in the condition of no side expansion	TCVN 4200:2012; ASTM D2435; AASHTO T216; JIS A1217; BS 1377
	Standard tightness test	TCVN 4201:2012; TCVN 12790:2020; 22TCN 333:2006; ASTM D1557, D698; AASHTO T99, TI80; JIS A1210; BS 1377
	Mass and volume testing (capacity)	TCVN 4202:2012, TCVN 8729:2012; ASTM D2937, D7263; BS 1377
	Testing CBR index in the laboratory	TCVN 12792:2020; 22TCN 332:2006; ASTM DI 883; AASHTO T193; JIS A1211
	Testing UU criteria; CU; CD; CV on 3-axis compressor	TCVN 8868:2011; ASTM D2850, D4767, D7181; AASHTOT296, T234 ; BS 1377

	Uniaxial compression test with lateral expansion	TCVN 9403:2012, TCVN 9438:2012; ASTM D2166; AASHTO TI 16, T208; JIS A1216 ; BS 1377
	Disintegration experiment	TCVN 8718:2012; ASTM D4647
	Swelling characteristic experiment	TCVN 8719:2012; ASTM D4546
	Shrinkage characteristic test	TCVN 8720:2012; ASTM D955, D427, D6289; AASHTO T92
	Testing the maximum and minimum dry volume of loose soil	TCVN 8721:2012; ASTM D4253
	Wet subsidence characteristic test	TCVN 8722:2012; ASTM D4546
	K permeability coefficient test.	TCVN 8723:2012; ASTM D2434; AASHTO T215; JIS A1218
	Testing the natural angle of rest of loose soil	TCVN 8724:2012
	Wing cutting experiment in the room	TCVN 8725:2012; ASTM D2579, D4648
	Organic content testing	TCVN 8726:2012; TCVN 7131:2002; ASTM D2974; AASHTO T267
	Testing the total amount of dissolved salts and the content of soluble salt constituent ions	TCVN 9436:2012; TCVN 8727:2012
	Testing the elastic modulus of stone materials reinforced with inorganic adhesives in the laboratory	TCVN 9843:2013
	Test of tensile strength when pressed and split of granular materials bonded with adhesives	TCVN 8862:2011
6	CONCRETE BRICK	
	Check size, color and visual defects; porosity; compressive strength; water permeability; water absorption	TCVN 6477:2016; ASTM C140
7	SELF-INSERT CONCRETE TILES	
	Experiment to check size, color and visual defects; compressive strength; water absorption; Abrasion	TCVN 6476:1999; ASTM C140
8	CEMENT FLOOR TILES	
	Experiment to check the size of bonded defects; surface layer abrasion; water absorption; impact resistance; bending load; surface hardness	TCVN 6065:1995
9	GRANITO TILES	
	Check size and visual defects; surface layer abrasion; shock resistance; surface hardness	TCVN 6074:1995
10	CERAMIC TILES	
	Experiments to check size and surface quality; water absorption; flexural strength and bending force; surface abrasion resistance for glazed tiles; long coefficient of thermal expansion; coefficient of moisture expansion; Crack	TCVN 6415:2016; ASTM C484, C654; BS EN 10545

	durability for ceramic tiles; chemical resistance; anti-fouling durability; color difference; friction coefficient; Surface hardness according to the Mohs scale	
11	BUILDING BRICKS	
	Experiment to check size and appearance defects; Compressive strength test; Bending strength test; Water absorption test; Mass-volume experiment; Porosity test; Test for lime peeling	TCVN 6355:2009; ASTM C67; AASHTO T32
12	LIGHTWEIGHT CONCRETE	
	Experiment to check size and appearance defects; Humidity and dry volume testing; Compressive strength test; Water absorption test; Thermal conductivity coefficient experiment	TCVN 9030:2017
13	TERAZZO BRICK	
	Experiment to check size and appearance defects; Water absorption test; Abrasion test; Bending strength test	TCVN 7744:2013
14	GRANITE	
	Experiment to check size and appearance defects; Water absorption test; Abrasion test; Bending strength test	TCVN 4732:2016; TCVN 6415:2016
15	METAL MATERIALS IN CONSTRUCTION	
	Geometric characteristics	TCVN 1651:2018, TCVN 7937:2013; ASTM A615; JIS G3112; ISO 15630;
	Tensile testing of metallic materials	TCVN 197-1:2014, TCVN 7937:2013, TCVN 6288:1997; ASTM A370, A615, E8; AASHTO T68, T244; JIS G3112, Z2241; AS 1302; ISO 6892, ISO 15630 ; BS 4449; BS EN 10002
	Bending experiment of metal materials	TCVN 198:2008, TCVN 7937:2013, TCVN 6288:1997; ASTM A370, A615, A90, E885; AASHTO T68; BS 4449; JIS G3112, Z2248; AS 1302; ISO 6892, ISO 15630; BS 4449
	Bending and incomplete rebending tests of steel	TCVN 6287:1997, TCVN 7937:2013; ISO 10065, ISO 15630; BS 4449
	Bending test of welded joints of metal materials	TCVN 5401:2010; ASTM A184, E190; AASHTO T68; JIS Z3122
	Flat compression test of welded metal material	TCVN 5402:2010; ASTM A333; AASHTO T68; JIS G3452
	Tensile testing of welded joints of metallic materials	TCVN 5403:2010; ASTM E190; AASHTO T68; JIS Z3121
	Horizontal tensile test of welded metal material	TCVN 8310:2010
	Longitudinal tensile test of welded metal material	TCVN 8311:2010

	Experiment to check weld quality using ultrasonic method	TCVN 6735:2000; TCVN 165:1988; TCVN 1548:1987; ASTM E164; BS 3923; ASME BPV Code Section I-XII; AWS D1.1, D1.6
	Experiment to check weld quality using magnetic powder method	TCVN 4396:2018; ASTM E709; ASME BPV Code Section I-XII
	Mechanical testing of prestressed cables, bolts and nuts	TCVN 197-1:2014, TCVN 7937:2013, TCVN 1916:1995; ASTM A370, F606, D429, E8; JIS Z2241, B1051, B1186; ISO 898-1
	Testing of cutting bolt materials	ASTM A370, F606
	Testing connections using threaded pipes	TCVN 8163:2009
	Testing steel anchors and bolt anchors	ASTME1512
	Ton mechanical experiment	JIS G3302, H0401.Z2241
	Mechanical testing of aluminum and aluminum alloys	TCVN 12513:2018; ASTM E108; ISO 6362
	Mechanical testing of stainless steel	TCVN 10356:2014; ASTM E108; ISO 15510
16	CONSTRUCTION MORTAR AND MORTAR USED FOR LIGHT BRICKS	
	Sampling and preparing test samples; Determine the largest aggregate particle size; Determine the fluidity of fresh mortar; Determine the volume of fresh mortar; Determine the ability of fresh mortar to retain fluidity; Determine the starting time of setting of fresh mortar; Determine the mass and volume of the cured mortar sample; Determine the flexural and compressive strengths of cured mortar; Determine the content of dissolved chloride ions in water; Determine the adhesion strength of the cured mortar on the substrate; Determine the water absorption of the cured mortar	TCVN 3121:2003, TCVN 9028 :2011, TCVN 9080:2012; ASTM C109, C230, C807, C939, C953, C1102, C1152, C1218, C1398, C1403, C1437, C1583; BS EN 1015, BS EN 445
	Testing of non-shrink mortar	TCVN 9204:2012; ASTM C939, C940, C1090
	Determine mortar mix composition	TCVN 10796:2015, TCVN 4459:1987
17	GEOTEXTILES AND PERMEABLE BOARDS	
	Testing tensile strength and elongation when pulling	TCVN 8871-1:2011; ASTM D4632, D4595, D5034
	Trapezoidal tearing force test	TCVN 8871-2:2011; ASTM D4533, D4595; JISL1096
	CBR penetration force test	TCVN 8871-3:2011; ASTM D6241, D4833, BS 6906
	Bar penetration resistance test	TCVN 8871-4:2011; ASTM D4833
	Burst resistance pressure test	TCVN 8871-5:2011; ASTM D3786
	Test apparent pore size by dry sieving test	TCVN 8871-6:2011; ASTM D4751
	Test drainage ability	TCVN 8483:2010; ASTM D4716
	Puncture resistance test using cone drop method	TCVN 8484:2010; ASTM 5494; BS 6906
	Testing tensile strength and elongation at break	TCVN 8485:2010; ASTM D4595

	Test filter pore size by wet sieving test	TCVN 8486:2010; ASTM D4751
	Penetration test	TCVN 8487:2010; 14TCN 97:1996; ASTM D4491.D4716
	Nominal thickness test	TCVN 8220:2013; 14TCN 92:1996; ASTM D5199
	Testing unit mass and specific gravity	TCVN 8221:2013; 14TCN 93:1996; ASTM D5261, D5321, D3776, D1505
18	BENTONITE AND BENTONITE POLYME	
	Specific gravity experiment; stability; Marsh funnel viscosity; PH; static shear force; sand content; clay coat thickness; amount of water separation; glue ratio (swelling degree); humidity; Testing gel strength and YP/PV ratio of Bentonite Polymer solution	TCVN 11893:2017, TCVN 13068:2020, TCVN 9395:2012; API-RP-13A,B; ASTM D4380, D4381, D4972, D5891, D6910, D2216, D1293
19	WATER FOR CONSTRUCTION	
	Oil and grease scum experiment	TCVN 4506:2012
	Experiment with color and smell	TCVN 4558:1988
	Test for insoluble residue content	TCVN 4560:1988; AASHTO T26
	Testing soluble salt content	TCVN 4560:1988; AASHTO T26
	pH testing	TCVN 6492:2011
	Chloride ion content test	TCVN 6194:1996; ASTM D512
	Experiment on sulfate ion content	TCVN 6200:1996; ASTM D516
	Testing organic matter content	TCVN 6186:2016
20	BITUMEN PLASTIC, ASTRUM EMULSION	
	Penetration test at 25°C	TCVN 7495:2005; ASTM D5; AASHTO T49; BS EN 1426
	Elongation test at 25°C	TCVN 7496:2005; ASTM D113; AASHTO T51
	Softening point test (ring and ball instruments)	TCVN 7497:2005; ASTM D36; AASHTO T53; BS EN 1427
	Flash point and fire point test (Cleveland open cup)	TCVN 7498:2005, TCVN 8818-2:2011; ASTM D92; AASHTO T48; BS 2000
	Experiment on mass loss after heating	TCVN 7499:2005, TCVN 11710:2017, TCVN 11711:2017; ASTM D6, D1754, D2872; AASHTO T47, T179, T240
	Solubility test in Trichlorethylene	TCVN 7500:2005; ASTM D2042; AASHTO T44; BS 2000
	Solubility test in N-Propyl Bromide	ASTM D7553
	Specific gravity test at 25°C	TCVN 7501:2005; ASTM D70; AASHTO T228
	Dynamic viscosity test at 60°C	TCVN 7502:2005, TCVN 8818-5:2011; ASTM D2170, D2171; AASHTO T59 ; BS EN 12596
	Paraffin content testing	TCVN 7503:2005; DIN 52015; BS 12606
	Testing adhesion to stone	TCVN 7504:2005; ASTM D3625, D2489; AASHTO T182, T195
	The experiment determines the ratio of remaining penetration compared to the	TCVN 7495:2005; ASTM D5; AASHTO T49; BS EN 1426

	initial penetration at 25°C	
	Testing the toughness and durability of asphalt	ASTM D5801
	Elasticity test at 25°C of polymer asphalt	TCVN 11194:2017; 22TCN 319:2004; ASTM D6084
	Testing the storage stability of polymer asphalt	TCVN 11195:2017; 22TCN 319:2004; ASTM D5892
	Viscosity test at 135°C (Brookfield viscometer) of polymer asphalt	TCVN 11196:2017; 22TCN 319:2004; ASTM D4402
21.	ACID-BASED ASPHALT EMULSION, ACID-BASED POLIME ASPHALT EMULSION	
	Determination of Saybolt Furol viscosity, settling and storage stability, amount of oversized particles, determination of particle charge, demulsification, mixing test with cement, determination of adhesion and water resistance, distillation test distillation, evaporation test, identification of acid asphalt emulsion, miscibility with water, determination of mass and volume, adhesion to aggregates in the field.	TCVN 8817:2011, TCVN 8818: 2011; AASHTO T59; ASTM D244, D4402, D5892, D6930, D6933, D6935, D6936, D6937, D6999
	Elasticity test at 25°C; Polymer content testing	TCVN 8816:2011; AASHTOT301; AASHTO T302
22	ASPHALT CONCRETE	
	Determination of stability and Marshall ductility; Determination of resin content by extraction method using a centrifuge; Determination of grain composition; Determine the maximum density and density of asphalt concrete in its loose state; Determine the bulk density and volume of compacted asphalt concrete; Determination of plastic flow; Determine the angularity of the sand; Determine compaction coefficient; Determine residual voids; Determine aggregate porosity; Determination of plastic filling voids; Determine the remaining stability of asphalt concrete	TCVN 8860:2011; TCVN 11807:2017; TCVN 13048:2020; AASHTO T19, T27, T51, T230, T238, T269, T304, T305, T164, T166, T172, T209 T245; ASTM C136, D1559, D2041, D2172, D2726, D3203, D5821, D6390, D6927 ; BS EN 12697
	Testing wheel rut depth - Decision 1617/QD/BGTVT	AASHTO T324; T0719;
	Determine the composition of asphalt concrete	TCVN 8820:2011; TCVN 13567-1,2,3:2022; TCVN 13048:2020; TCVN 12818:2019; AASHTO T312
	Permeability coefficient test	TCVN 11634:2017; ASTM PS129
	Testing TSR warming resistance	TCVN 12914:2020; AASHTO T283
	Cantabro wear test	TCVN 11415:2016; ASTM D7064
	Connected porosity test	TCVN 13048:2020
	Indirect tensile test using split pressing method	TCVN 8862:2011; ASTM D6931

	Tensile test by bending beam sample method	22TCN 211:2006; AASHTO T313
	Water saturation test; Swelling coefficient after water saturation; Compressive strength; Coefficient of water stability and thermal stability; Water resistance after long water saturation	22TCN 62:1984; ASTM D1074; AASHTO T167
23	MINERAL POWDER	
	Determination of density; Determination of grain composition; Determination of humidity; Determine plasticity index; Determine the water absorption index; Check the appearance; Experiment on loss during calcination; Testing volume and porosity; Testing the content of dissolved substances in water; Testing the specific gravity of a mixture of mineral powder and asphalt; Testing the volume and residual voids of a mixture of mineral powder and asphalt; Testing the volume swelling of a mixture of mineral powder and asphalt; Index test of resin content of mineral powder	22TCN 58:1984; AASHTO T113, T27, T100, T255, T37; ASTM D5329, D456; TCVN 8735 :2012, TCVN 12884:2020
24	FIELD TESTING	
	Field compaction testing using sand pouring method	TCVN 8730:2012, TCVN 8729:2012; 22TCN 346:2006; ASTM D1556; AASHTO T191
	Field tightness testing using belt knife method	TCVN 12791:2020, TCVN 8730:2012, TCVN 8729:2012; 22TCN 02:1971; ASTM D2937; AASHTO T204
	Field compaction testing using radioactive methods	TCVN 9350:2012; ASTM D2937; AASHTO T310
	Testing CBR index in the field	TCVN 8821:2011; ASTM D4429 ; AASHTO T193 ;BS 1377
	Testing the elastic modulus of the foundation and pavement structural layers using the rigid pressure plate method	22TCN 211:2006; TCVN 8861:2011; ASTM D1195; AASHTO T221
	Test road surface flatness using a 3m ruler	TCVN 8864:2011; 22TCN 16:1979; ASTM E950, E1082
	Testing road surface roughness using sand sprinkling method	TCVN 8866:2011; 22TCN 278:2001; ASTM E965; AASHTO T28
	Testing the general elastic modulus of the structure using a Benkelman deflection measuring rod	22TCN 211:2006; TCVN 8867:2011; ASTM D4695; AASHTO T256
	Permeability test in borehole (field permeability coefficient)	TCVN 8731:2012 , TCVN 9148:2012; ASTM D3385; BS 1377
	Non-destructive testing determines the compressive strength of concrete using a rebound gun	TCVN 9334:2012, TCVN 10303:2014; ASTM C805, D5873; DIN 1048; BS 1881
	Non-destructive testing uses a	TCVN 9335:2012, TCVN 10303:2014; ASTM

combination of ultrasonic meters and rebound guns to determine the compressive strength of concrete	C805, C597; DIN 1048; JIS A1 155; BS EN 12504
Testing the durability of reinforced concrete structures subjected to bending using the static loading method in the field	TCVN 9344:2012; ASTM E455
Test substrate adhesion using the tensile method	TCVN 9349:2012; ASTM D4541
Standard penetration test (SPT)	TCVN 9351:2012; ASTM D1586, D5778; AASHTO T206; BS 1377
Static penetration experiment	TCVN 9352:2012; ASTM D3441, D1586, D5778; AASHTO T206; BS 1377
Field deformation modulus testing using pressed plates,	TCVN 9354:2012; ASTM D4395; BS 1377
Experiment to check the thickness of the protective concrete layer, position and diameter of reinforcement in concrete using electromagnetic methods	TCVN 9356:2012; BS 1881
Experiment to check concrete quality using ultrasonic pulse velocity	TCVN 9357:2012; ASTM C597; BS 1881; BS EN 12504
Determine the crack width of concrete using a magnifying glass	TCVN 5879:2009
Measure construction settlement using the geometric height measurement method	TCVN 9399:2012, TCVN 9364:2012; ASTM D6230
Measuring horizontal displacement of works	TCVN 9400:2012, TCVN 9364:2012
Measure the tilt of the building	TCVN 9385:2012; ASTM D6431; BS 6651
Ground resistance measurement experiment	TCVN 9393:2012; ASTM D1 143, D3689; BS 8004
Test piles in the field using static weight applied along the axis	TCVN 9393:2012; ASTM D3689, D3966
Testing of piles, horizontal compression of concrete piles - pile head humus	TCVN 9395:2012; 22TCN 257:2000; ASTM D6067, D2113
Measuring the straightness of bored pile walls (Koden)	TCVN 9395:2012; 22TCN 257:2000; ASTM D5882
Testing bored piles using ultrasonic method	TCVN 9396:2012; ASTM D6760
Testing piles to check defects using the small deformation method (PIT)	TCVN 9397:2012; ASTM D5882
Geodetic work in construction works	TCVN 9398:2012, TCVN 9401:2012; ASTM D6432, D6230; AASHTO T254
Testing the tensile strength of concrete	TCVN 9490:2012; ASTM C900, D4435
Test surface tensile strength and adhesion strength by direct tensile	TCVN 9491:2012; ASTM C1583
Experiment to measure the thickness of plating coating and paint film	TCVN 9406:2012, TCVN 5408:2007
Pile testing using large deformation method (PDA)	TCVN 11321:2016; ASTM D4945; AASHTO T298
Dynamic penetration test (DCP)	ASTM D6951, D7380; DIN 4094; BS 1377

Field wing cutting test (FVT)	22TCN 355:2006; ASTM D2573; BS1377
Seismic experiments in boreholes	ASTM D7400, D7128, D5777, D4428
Horizontal compression test in borehole	ASTM D4719; BS 5930
Concrete Strength Test	TCXDVN 239:2006; TCVN 10303:2014, TCVN 12252:2020
Experiment to determine pavement classification number (PCN)	TCVN 11365:2016; ASTM D4694
Experiment to determine pavement condition index (PCI)	ASTM D5340
Experiment measuring the coefficient of friction on the road surface	ASTM E2340;
Testing the sliding resistance of road surfaces using the British pendulum method	TCVN 10271:2014; ASTM D403; AASHTO T278
Physical and mechanical testing of precast concrete curb products	TCVN 10797:2015
Mechanical testing of precast concrete bearings	TCVN 10799:2015
Mechanical testing of large recycled aggregates for concrete	TCVN 11969:2018
Mechanical testing of mortar for prestressed cable insertion	TCVN 11971:2018
Mechanical testing of precast concrete hollow wall panels	TCVN 11524:2016
Mechanical testing of prestressed centrifugal concrete piles	TCVN 7888:2014
Mechanical testing of reinforced concrete sewer pipes	TCVN 9113:2012
Mechanical testing of reinforced concrete box culverts	TCVN 9116:2012

Note (*) - Technical standards used for tests are fully listed, including Vietnamese and foreign standards (if any). When there is a new version of a technical standard replacing the old standard, the corresponding new standard must be applied.

LỜI CHỨNG CỦA CÔNG CHỨNG VIÊN/NOTARY TESTIMONY

Hôm nay, ngày 13 tháng 09 năm 2023 (ngày mười ba tháng chín, năm hai nghìn không trăm hai mươi ba)

Today, 13/09/2023 (the thirteenth of September in two thousand twenty three)

Tại trụ sở Văn phòng Công chứng Lại Khánh; Địa chỉ tại: A4 – TT19 KĐT Văn Quán, Yên Phúc, Phường Phúc La, Quận Hà Đông, TP Hà Nội.

At Lai Khanh Notary Office; Address: A4 – TT19 Van Quan urban area, Yen Phuc, Phuc La Ward, Ha Dong District, Hanoi City.

Tôi, công chứng viên, trong phạm vi trách nhiệm của mình theo quy định của pháp luật.

I, Notary Public, within the scope of my liability in accordance with the law.

CHỨNG NHẬN/CERTIFY THAT:

- Bản dịch này do ông Trương Công Đạt, cộng tác viên phiên dịch của Văn phòng Công chứng Lại Khánh, Thành phố Hà Nội dịch từ **tiếng Việt sang tiếng Anh**;
- This is translation from Vietnamese to English by Mr. Truong Cong Dat, who is translation collaborator of Lai Khanh Notary Office, Hanoi City;
- Chữ ký trong bản dịch đúng là chữ ký của Ông Trương Công Đạt;
- Signature in the translation is the true and authentic signature of Mr. Truong Cong Dat;
- Nội dung bản dịch chính xác, không vi phạm pháp luật, không trái đạo đức xã hội;
- The contents of the translation are correct and do not violate the law or social morality;
- Văn bản công chứng này được lập thành 02 bản chính, mỗi bản gồm 13 tờ, 13 trang, lưu 01 bản tại Văn phòng Công chứng Lại Khánh, thành phố Hà Nội.
- This Notary certificate is made into 02 originals, each original 13 sheets, 13 pages, one of which is retained in Lai Khanh Notary Office, Hanoi City.

Số công chứng: 2 8 0 1, Quyển số 01/2023 TP/CC-SCC/BD.

Notarized No.: 2 8 0 1, Book No.: 01/2023 TP/CC-SCC/BD.

NGƯỜI DỊCH
TRANSLATOR

dat

Trương Công Đạt

CÔNG CHỨNG VIÊN
NOTARY PUBLIC



VU THI THUY TRANG

TRANSLATION/ BAN DỊCH

MINISTRY OF CONSTRUCTION

SOCIALIST REPUBLIC OF VIETNAM

Independence - Freedom - happiness

No. 220 /CNĐKTN-BXD

Hanoi, July 25, 2022

CERTIFICATE OF REGISTRATION FOR EXPERIMENTAL ACTIVITIES

Pursuant to Decree No. 81/2017/ND-CP dated July 17, 2017 of the Government regulating the functions, tasks, powers and organizational structure of the Ministry of Construction;

Pursuant to Decree No. 107/2016/ND-CP dated July 01, 2016 of the Government regulating conditions for business of conformity assessment services;

Decree 154/2018/ND-CP dated November 09, 2018 of the Government amending, supplementing and abolishing a number of regulations on investment and business conditions in the field of state management of the Ministry of Science and Technology and some regulations on specialized inspection.

At the request of the Director of the Department of Science, Technology and Environment, the Ministry of Construction hereby certifies:

1. Name of registered organization:

Consultant and Inspection Joint Stock Company of Construction Technology and Equipment-CONINCO.

Tax code: 0100106169001

Address: No. 4 Ton That Tung Street, Trung Tu Ward, Dong Da District, Hanoi City

Telephone: 024.38523706;

Fax: 024.35741708.

- E-mail: conincohn@coninco.com.vn, Web: www.coninco.vn

Has registered for testing activities of the construction industry in the field of construction materials as defined in attached Appendix.

2. Registration number: 01/TN/BXD

3. This certificate is valid for 05 years from the date of registration, replaces the Certificate No.01/CNĐKTN-BXD dated August 18, 2017./.

Recipients:

- The Organization named at Article 1;
- Ministry of Science and Technology (for report)
- Information Center (website);
- Saved: Office, Department of Science, Technology & Environment

BY ORDER OF MINISTER

Director of the Department of Science,
Technology and Environment

(Signed and sealed)

Vu Ngoc Anh

APPENDIX

FIELD OF TESTING CONSTRUCTION MATERIAL PRODUCTS AND GOODS

*(Attached to Certificate No.: 220 /CNĐKTN-BXD, dated July 25, 2022
of the Minister of Construction)*

No.	Field of Testing Construction Material Products and Goods	Standards (testing method)
1	Aluminum and aluminum alloy	
	Determination of mechanical properties	TCVN 197-1; ISO 6892-1 ASTM B 557 M; TCVN 12513-2:2018; ISO 6362-2:2014 JISH4100; JISZ2248 JIS Z 2244; JIS H 4000
	Determination of shape and size tolerances	TCVN 12513-3-6:2018 ISO 6362-3-6:2014.
	Determination of chemical composition	TCVN 12513-7:2018 ISO 6362-7:2014 JISH4100; JISH4000
	Determination of conductivity	JIS H 0505
2	Plastic	
	Determination of impact resistance using the falling load method	BS EN 12608; EN 477
	Determination of dimensional stability after heat aging	BS EN 12608; EN 479
	Determination of the change in appearance after heat aging at 150 degrees Celsius	BS EN 12608; EN 478
	Determination of weather resistance	BSEN 12608; EN 513
	Determination of weld corner strength	BSEN 12608; EN 514
	Determination of color fastness	BS EN 12608; ISO 105
	Determination of flexural strength	BS EN 12608; ISO 178
	Determination of Charpi impact strength	BS EN 12608; ISO 179
	Determination of Vicat softening temperature	ISO 306 TCVN 6147; ISO 2507
	Determination of tensile impact strength	TCVN 11995:2017; ISO 8256
	Determination of size and appearance	BS EN 12608 TCVN 6145; ISO 3126 TCVN 9562
	Hydrostatic/internal pressure resistance	TCVN6149; ISO 1167
	Elongation at break	TCVN 7434; ISO 6529
	Vertical size change	TCVN 6418; ISO 2505
	MFR/MVR flow rate	ISO 1133
	Oxidation induction time	ISO 11357-6
	Internal adhesive strength	ISO 13954; ISO 13955

	Tensile strength/ Initial longitudinal specific tensile strength	ISO 13953; ISO 13951 TCVN 9562 TCVN 10769 (ISO 7685)
	Impact resistance	ISO 13957; EN 744
	Resistance to dichloromethane	TCVN 7306; ISO 9852
	Try pulling an axis	TCVN 7434; ISO 6259
	Impact resistance	EN 744
	Differential calorimetry (DSC)	ISO 18373
	Effect of heating	TCVN 6242; ISO 580
	Ring stiffness	TCVN 9562; TCVN 10769 (ISO 7685)
	Breaking strength under compression conditions	TCVN 9562;
	Hydrostatic tightness	TCVN 9562
	Concentration of substances affected when in contact with domestic water	TCVN 6253/ISO 8795 TCVN 6626; ISO 11969 SMEWW3120.B TCVN 6658; ISO 11083 SMEWW 3500-Cr.B TCVN 7877; ISO 5666 TCVN7724; ISO 17852 EPA 7470.A; SMEWW3112.B
3	Cast iron	
	Determination of size	ISO 2531; TCVN 10177
	Mechanical properties	TCVN 10177; TCVN 256; ISO 6506; ISO 2531
	Determination of tightness	ISO 2531; TCVN 10177
	Concentration of substances affected when in contact with domestic water	TCVN 6253/ISO 8795 TCVN 6626; ISO 11969 SMEWW3120.B TCVN 6658; ISO 11083 SMEWW 3500-Cr.B TCVN 7877; ISO 5666 TCVN 7724; ISO 17852 EPA 7470. A; SMEWW3112.B BSEN 15664
4	Pipes and fittings used to protect and install electrical wires in the house. Cable ladder and cable tray systems used in electrical installation at construction sites	
	Fire danger. Fire resistance	TCVN 9900; IEC 60695 TCVN 10688:2015 IEC 61537:2006
	Determination of size	TCVN 10688:2015 IEC 61537:2006
	Determination of physical and mechanical properties	TCVN 10688:2015 IEC 61537:2006
	Determination of thermal properties	TCVN 10688:2015 IEC 61537:2006
	Determination of electrical characteristics	TCVN 10688:2015 IEC 61537:2006
5	Wood	
	Geometric/dimensional characteristics	TCVN 11945; ISO 24337 TCVN 7756; TCVN 11904
	Residual dents	TCVN 11944; ISO 24343
	Exposure fastness	ISO 4892
	Abrasion resistance	TCVN 11947; ISO 10874

	Durability of chair legs and wheels	TCVN 11948; ISO 4918
	Impact resistance	TCVN 11949; ISO 24335
	Thickness swelling	TCVN 11950; ISO 24336 TCVN 7756; TCVN 12445; ISO 16983
	Surface durability	TCVN 7756; TCVN 11906; ISO 16981
	Size change	TCVN 11951
	Mechanical joint strength	TCVN 11952; ISO 24334
	Determination of humidity	TCVN 7756; TCVN 11905; ISO 16979
	Determination of the volume mass	TCVN 7756
	Determination of the flexural elastic modulus and flexural strength	TCVN 7756; TCVN 12446; ISO 16978
	Determination of the tensile strength perpendicular to the board surface/Bonding strength	TCVN 7756; TCVN 12447
	Determination of moisture resistance	TCVN 7756; TCVN 12444; ISO 20585; TCVN 10313; ISO 16998; TCVN 10312; ISO 16987
	Determination of the adhesive quality of plywood boards	TCVN 7756
	Determination of surface durability	TCVN 7756
	Determination of specific volume	TCVN 5694; ISO 9427
	Formaldehyde content	TCVN 11899; EN 717-1
6	Painting	
	Coating durability/Adhesion	TCVN 2097/AAMA 2603/AAMA 2604/AAMA 2605
	Washout degree	TCVN 8653
	Hot and cold cycle	TCVN 8653
	Volatile organic matter content	TCVN 10370 TCVN 9014 TCVN 10369
	Color	TCVN 2102/AAMA 2603/AAMA 2604/AAMA 2605
	Condition of paint in container	TCVN 8653; TCVN 9014
	Construction characteristics	TCVN 8653; TCVN 9014
	Low temperature stability	TCVN 8653
	Paint film appearance	TCVN 8653
	Drying time	TCVN 2096
	Dry fraction content	TCVN 2093
	Smoothly	TCVN 2091
	Coverage	TCVN 2095
	Water resistance	TCVN 8653
	Alkaline resistance	TCVN 8653; TCVN 9014
	Water permeability	TCVN 8652
	Paint film appearance	TCVN 9014

	Life time	TCVN9014
	Glossiness	AAMA 2603/AAMA 2604/AAMA 2605/ TCVN 2101:2016; ISO 2813:2014 ISO 2813:2014
	Paint film hardness	ASTMD3363/AAMA 2603/AAMA 2604/AAMA 2605; TCVN 2098
	Flexural strength of the membrane	TCVN2099
	Impact resistance	AAMA 2603/AAMA 2604/AAMA 2605; TCVN 2100/ISO 6272-2
	Chemical resistance	AAMA 2603/AAMA 2604/AAMA 2605; JIS K 5400; ISO 2812
	Moisture resistance	ASTMD2247/AAMA 2603/AAMA 2604/AAMA 2605
	Salt spray durability	ASTM B117/AAMA 2603/AAMA 2604/AAMA 2605; TCVN 9014; ISO 7253
	Salt water resistance	TCVN 9014
	Environmental resistance	TCVN 8789
	Abrasion resistance	AAMA 2603/AAMA 2604/AAMA 2605
	Viscosity	TCVN 2092; ASTMD2196
7	Plaster	
	Bending strength	ASTM C473/TCVN 8257
	The sea is warm	ASTM C473/TCVN 8257
	Water absorption	ASTM C473/TCVN 8257
	Volatile sulfur content	ASTM C471
	Determination of the size and depth of the tapered edge	TCVN 8257/ASTM C473
	Determination of the hardness of edges, edges, and cores	TCVN 8257/ASTM C473
	Determination of nail pullout resistance	TCVN 8257/ASTM C473
	Determination of surface water adsorption	TCVN 8257/ASTM C473/
	Determination of water vapor permeability	TCVN 8257/ASTM C473
8	Lightweight concrete, foam, autoclaved gas	
	Determination of size	TCVN 12868; TCVN 7959; TCVN 6415; TCVN 7744
	Appearance and defects	TCVN 12868
	Mass volume	TCVN 12868; TCVN 7959
	Compressive strength	TCVN 12868; TCVN 9030
	Determination of humidity	TCVN 12868
	Determination of drying shrinkage	TCVN 12868; TCVN 7959
	Water absorption	TCVN3113
	Thermal conductivity	TCVN 9030
	Determination of the level of protection of steel reinforcement against corrosion	TCVN 12868

	Determination of bending resistance	TCVN 12868
	Determination of the ability to hang heavy objects	TCVN 12868
	Determination of impact resistance	TCVN 12868
9	Three-layer interlocking lightweight wall panels, precast concrete wall panels	
	Determination of size	TCVN 12302; TCVN 11524
	Identify visual defects	TCVN 12302; TCVN 11524
	Dry volumetric mass	TCVN 7959
	Compressive strength	TCVN 3118/TCVN 9030:2017
	Impact resistance	TCVN 11524:2016
	Adhesion strength	TCVN 9349:2012
	Durability of hanging heavy objects	TCVN 12302; TCVN 11524
	Determination of thermal conductivity	TCVN 9030:2017
	Determination of sound insulation	TCVN 7575-2:2007.
	Determination of fire resistance limit	TCVN 9311-8:2012
	Water absorption	TCVN3113
	Porosity	TCVN 6477
10	Granite	
	Dimensions, geometric properties and surface quality	TCVN 4732; BS EN 14617; EN 13373
	Appearance defects	TCVN4732; BS EN 1341
	Surface gloss	TCVN 2101:2016; ISO 2813:2014
	Water absorption	TCVN 6415/ ASTM C97; EN 13755; BS EN 14617
	Mass, volume, porosity	TCVN 6415/ ASTM C97; BS EN 14617; EN 1936
	Flexural strength	TCVN 6415/ ASTM C99/ ASTM C880; EN 12372; BS EN 14617; ASTM C880
	Abrasion resistance	TCVN 4732/ ASTM C241; BS EN 14617; EN 14157
	Closing and defrosting durability	BS EN 14617; EN 12371; BS EN 1341
	Thermal shock resistance	BS EN 14617
	Dowel hole durability	BSEN 14617
	Impact resistance	BSEN 14617
	Chemical resistance	BS EN 14617
	Long coefficient of thermal expansion	BS EN 14617
	Dimensional stability	BS EN 14617
	Compressive strength	BS EN 14617/ASTMC170
	Electrical conductivity	BSEN 14617
	Anti-slip durability	EN 14231
11	Construction glass	
	Dimensional and geometrical tolerances	TCVN 7219; ASTM C1036; ASTM c 1503; EN 572; JIS R 3209; JIS R 3205; JIS R3206; JIS R 3222; AS/NZS 2208; TCVN 6758

	Appearance defects	TCVN 7219; ASTM C1036; ASTM C1503; JIS R 3209; JIS R 3205; JIS R3206; JIS R 3222; TCVN 6758
	Optical distortion	TCVN 7219; ASTM C1036; EN 572.TCVN 6758
	surface stress	TCVN 8261; JISR 3222
	Check break	TCVN 7455; JIS R 3206; BS 6206; AS/NZS 2208; ANSI Z97.1TCVN 6758
	Impact resistance	TCVN 7368; TCVN 7455; JIS R 3205; JIS R3206; BS 6206; AS/NZS 2208; ANSI Z97.1 TCVN 6758
	High temperature resistance	TCVN 7364; JIS R3205; AS/NZS 2208; ANSI Z97.1; TCVN 6758
	Moisture resistance	TCVN 7364; TCVN 7625; JIS R3205; TCVN 6758
	Radiation resistance	TCVN 7364; JIS R3205
	Determination of optical indices: Light transmission/reflection; transmit/reflect direct solar radiation energy; total transmitted solar radiation energy (g, SHGC); ultraviolet radiation penetration; solar heat blocking coefficient; radiation coefficient	TCVN 7737; ISO 9050; EN 410; NRFC 300; ASTM E903; JIS R 3209; JISR3106
	Heat transmission/insulation coefficient	TCVN 8260; TCVN 9502; ASTM C518; JIS R 3107; NFRC 100
	Dewpoint	TCVN 8260; JISR3209
	Chemical resistance, water resistance	TCVN 7528; TCVN 9808; TCVN 1046
	Durability and coating uniformity	TCVN 9808
	Salt spray durability	BS EN 1036, EN ISO 9277
	Coating adhesion	TCVN 2097; ISO 2409
	Optical quality	BSEN 1036
	Reflective layer	TCVN 7625
	Abrasion resistance	TCVN7528; TCVN 6758
	Gas concentration	JIS R 3209; JIS R 3224
	Durability of sealant layer and optical film layer	JIS R 3209; JIS R 3224
	Fire reaction	EN 15998; EN ISO 1182; EN ISO 1716; EN 13823; EN ISO 11925-2; EN ISO 9239-1
12	Ceramic tiles	
	Water absorption	TCVN6415
	Flexural strength	TCVN 6415
	Abrasion resistance	TCVN 6415
	Anti-slip coefficient	TCVN 6415; DIN 51130; DIN 51097; AS/NZS 4586
	Long coefficient of thermal expansion	TCVN 6415
	Moisture expansion coefficient	TCVN 6415
	Chemical resistance	TCVN 6415

	Anti-stain durability	TCVN 6415
	Surface hardness	TCVN 6415
13	Masonry bricks	
	Determination of flow	TCVN 6355; TCVN 6477
	Determination of extrusion capacity	TCVN 6355; TCVN 6477
	Determination of hardness	TCVN 6355
	Determination of heat aging effects	TCVN 6355; TCVN 6477
	Determination of the time of non-stick surface	TCVN 6355
	Determination of adhesion strength	TCVN 6355; TCVN 6477
	Determination of flow	TCVN 6355
	Determination of extrusion capacity	TCVN 6477
14	Silicon sealant	
	Determination of flow	TCVN 8267
	Determination of extrusion capacity	TCVN 8267
	Determination of hardness	TCVN 8267
	Determination of heat aging effects	TCVN 8267
	Determination of the time of non-stick surface	TCVN 8267
	Determination of adhesion strength	TCVN 8267
15	Sealing materials	
	Cone subsidence	TCVN 9974
	Softening point	TCVN 9974
	Adhesion	TCVN 9974
	Elastic settlement	TCVN 9974
	Compatibility with plastics	TCVN 9974
16	Mortar, grout and tile adhesive	
	Tensile adhesion strength	TCVN 7899-2
	Adhesion strength when cutting	TCVN 7899-2
	Open time: adhesion strength when pulled	TCVN 7899-2
	Slippage	TCVN 7899-2
17	Bolts, studs, rivets	
	Determination of physicochemical properties	ISO 898-1-7 ASTMA751
18	Windows, doors, facades	
	Determination of size	TCVN 8259
	Determination of water resistance	TCVN 8259
	Determination of air tightness	TCVN 8259
	Determination of wind pressure resistance	JIS A 1481; ISO 22262
	Determination of the door opening and closing force	TCVN 8259
	Repeated opening and closing testing	TCVN 8259
	Determination of weld corner strength	TCVN 8259
19	Fiber cement	
	Bending strength	TCVN 8259

	Waterproofness	TCVN 8259
	Rain and sun durability	TCVN 8259
	Asbestos content	JIS A 1481; ISO 22262
	Size, shape	TCVN 8259
	Moist elasticity	TCVN 8259
	Hot water durability	TCVN 8259
	Frost resistance	TCVN 8259
	Hot and cold cycle durability	TCVN 8259
20	Metal hanging frame system for ceiling panels	
	Size and shape	TCVN 12694; ASTM C635/C635M-17
	Protective coating	
	Salt blind testing	ASTMB117
	High humidity test	ASTMD1735
	Hanging frame system feature	TCVN 12694; ASTM C635/C635M-17

LỜI CHỨNG CỦA CÔNG CHỨNG VIÊN/NOTARY TESTIMONY

Hôm nay, ngày 13 tháng 09 năm 2023 (ngày mười ba tháng chín, năm hai nghìn không trăm hai mươi ba)

Today, 13/09/2023 (the thirteenth of September in two thousand twenty three)

Tại trụ sở Văn phòng Công chứng Lại Khánh; Địa chỉ tại: A4 – TT19 KĐT Văn Quán, Yên Phúc, Phường Phúc La, Quận Hà Đông, TP Hà Nội.

At Lai Khanh Notary Office; Address: A4 – TT19 Van Quan urban area, Yen Phuc, Phuc La Ward, Ha Dong District, Hanoi City.

Tôi, công chứng viên, trong phạm vi trách nhiệm của mình theo quy định của pháp luật.

I, Notary Public, within the scope of my liability in accordance with the law.

CHỨNG NHẬN/CERTIFY THAT:

- Bản dịch này do ông Trương Công Đạt, cộng tác viên phiên dịch của Văn phòng Công chứng Lại Khánh, Thành phố Hà Nội dịch từ **tiếng Việt sang tiếng Anh**;
- This is translation from Vietnamese to English by Mr. Truong Cong Dat, who is translation collaborator of Lai Khanh Notary Office, Hanoi City;
- Chữ ký trong bản dịch đúng là chữ ký của Ông Trương Công Đạt;
- Signature in the translation is the true and authentic signature of Mr. Truong Cong Dat;
- Nội dung bản dịch chính xác, không vi phạm pháp luật, không trái đạo đức xã hội;
- The contents of the translation are correct and do not violate the law or social morality;
- Văn bản công chứng này được lập thành 02 bản chính, mỗi bản gồm 10 tờ, 10 trang, lưu 01 bản tại Văn phòng Công chứng Lại Khánh, thành phố Hà Nội.
- This Notary certificate is made into 02 originals, each original 10 sheets, 10 pages, one of which is retained in Lai Khanh Notary Office, Hanoi City.

Số công chứng: **2799**, Quyển số 01/2023 TP/CC-SCC/BD.

Notarized No.: **2799**, Book No.: 01/2023 TP/CC-SCC/BD.

NGƯỜI DỊCH
TRANSLATOR

Trương Công Đạt

CÔNG CHỨNG VIÊN
NOTARY PUBLIC



VU THỊ THUY TRANG

TRANSLATION BẢN DỊCH

MINISTRY OF CONSTRUCTION

SOCIALIST REPUBLIC OF VIETNAM

Independence - Freedom - happiness

No. 221 /CNĐKCN-BXD

Hanoi, July 25, 2022

CERTIFICATE OF REGISTRATION FOR CERTIFICATION ACTIVITIES

Pursuant to Decree No. 81/2017/ND-CP dated July 17, 2017 of the Government regulating the functions, tasks, powers and organizational structure of the Ministry of Construction;

Pursuant to Decree No. 107/2016/ND-CP dated July 01, 2016 of the Government regulating conditions for business of conformity assessment services;

Decree 154/2018/ND-CP dated November 09, 2018 of the Government amending, supplementing and abolishing a number of regulations on investment and business conditions in the field of state management of the Ministry of Science and Technology and some regulations on specialized inspection.

At the request of the Director of the Department of Science, Technology and Environment, the Ministry of Construction hereby certifies:

1. Name of registered organization:

Consultant and Inspection Joint Stock Company of Construction Technology and Equipment-CONINCO.

Tax code: 0100106169001

Address: No. 4 Ton That Tung Street, Trung Tu Ward, Dong Da District, Hanoi City

Telephone: 024.38523706;

Fax: 024.35741708.

- E-mail: conincohn@coninco.com.vn, Web: www.coninco.vn

Has registered for certification activities of the construction industry in the field of construction material products and goods as defined in attached Appendix.

2. Registration number: 04/CN/BXD

3. This certificate is valid for 05 years from the date of registration, replaces the Certificate No.04/CNĐKCN-BXD dated August 18, 2017./.

Recipients:

- The Organization named at Article 1;
- Ministry of Science and Technology (for report)
- Saved: Office, Department of Science, Technology & Environment

BY ORDER OF MINISTER
DIRECTOR OF DEPARTMENT OF
SCIENCE, TECHNOLOGY &
ENVIRONMENT

(Signed and Sealed)

Vu Ngoc Anh

APPENDIX

FIELD OF CERTIFICATION OF CONSTRUCTION MATERIAL PRODUCTS AND GOODS

*(Attached to Certificate No.: 221 /CNĐKCN-BXD, dated July 25, 2022
of the Minister of Construction)*

No.	Name of Construction Material Products and Goods	Applied Standards
1	Construction glass products	
1.1	Sliding glass	TCVN 7736:2007
1.2	Float glass	TCVN 7218:2018
1.3	Floral patterned rolled glass	TCVN 7527:2005
1.4	Colored absorb heat glass	TCVN 7529:2005
1.5	Reflective coated glass	TCVN 7528:2005
1.6	Mirror glass	TCVN 7624:2007
1.7	Laminated glass and laminated safety glass	TCVN 7364:2018
1.8	Heat-hardened flat glass	TCVN 7455:2013
1.9	Steel mesh reinforced glass	TCVN 7456:2004
1.10	Low radiation coated glass	TCVN 9808:2013
1.11	Box glass mounting insulated glass	TCVN 8260:2009
1.12	Construction glass	JIS R 3222, JIS R 3202, JIS R 3205, JIS R 3206, JIS R 3209. BS 6206, BS EN 572, BS EN 12150, BS EN 12600, BS EN 1863, BS EN ISO 12543, BS EN 1279, BS EN 1036. AS/NZS 2208 ASTM C 1036, ASTM c 1048, ANSI Z 97.1, ASTM C 1172, ASTM E 773, ASTM E 774, ASTM E 2190; ASTM C 1503 GB 11614-2009, GB 15763.2- 2005, GB 17841-2008, GB/T 18915.1-2002, GB/T 18915.2- 2002, GB 9962-2009, GB/T 11944-2002, GB 15763.1-2009, GB 17840-1999, GA 165-1997
2	Stone and tile products	
2.1	Semi-dry pressed ceramic tiles	TCVN 7745:2007, ISO 13006; TCVN 13113
2.2	Flexible extruded ceramic tiles	TVN 7483:2005, ISO 13006; TCVN 13113
2.3	Ceramic tiles - Mosaic exterior tiles	TCVN 8495:2010
2.4	Tezzazzo tiles	TCVN 7744:2013
2.5	Self-inserting concrete tiles	TCVN 6476:2011
2.6	Artificial paving stone based on organic binders	TCVN 8057:2009, BS EN 16954
2.7	Natural paving stone	TCVN 4732:2016, BS EN 1341
3	Construction material products contain inorganic fibers, synthetic organic fibers, aluminum products, aluminum alloys, and stainless steel	
3.1	Artificial wood flooring, multi-layer	EN 13329:2006; TCVN 11943

	flooring	
3.2	Wood-plastic composite flooring	TCVN 11352:2016, GB/T24137-2009
3.3	Wood chipboard	TCVN 7754:2007; TCVN 12362
3.4	Fiberboard wood	TCVN 7753:2007
3.5	Laminated wood	TCVN 8575
3.6	Gypsum board, fiberglass reinforced gypsum board	TCVN 8256:2009; ASTM C 1396; ASTM C1278
3.7	Bare bones	TCVN 12694; ASTM C635/C635M-17
3.8	Aluminum and aluminum alloys	TCVN 5839:1994; TCVN 5910:1995; JIS H 4100; JIS H 4000; ISO 6362; TCVN 12513
3.9	Fiber cement panels	TCVN 8258:2009
3.10	Stainless steel, stainless steel	TCVN 10356:2014/ISO 15510:2010 TCVN 10358:2014/ISO 18286:2008 JIS G3459; JIS G4305; JIS G4304; JIS G4318
4	Paint products, waterproof materials.	
4.1	Emulsion wall paint	TCVN 8652:2012
4.2	Portland cement-based wall putty	TCVN 7239:2014
4.3	Epoxy paint	TCVN 9014/JIS K 5551
4.4	Paint protects steel structures	TCVN 8789
4.5	Sealant silicone, sealant material	TCVN 8266 : 2009; TCVN 9974
5	Window and door product group	
5.1	Windows and doors made of U-PVC rigid frames	TCVN 7451:2004
5.2	Doors, windows - Wooden doors	TCVN 9366-1:2012
5.3	Doors, windows - Metal doors	TCVN 9366-2:2012
5.4	Profile U-PVC shaped	BSEN 12608
6	Construction material products	
6.1	Fired clay solid bricks	TCVN 1451:1998
6.2	Burnt clay hollow bricks	TCVN 1450:2009
6.3	Concrete bricks	TCVN 6477:2016
6.4	Autoclaved aerated concrete bricks (AAC)	TCVN 7959:2017
6.5	Lightweight concrete - foam concrete and autoclaved aerated concrete	TCVN 9029:2017
6.6	Mortar, grout, tile adhesive	TCVN 7899-1:2008/ISO 13007-1 : 2004
6.7	Precast concrete hollow wall panels using extrusion technology	TCVN 11524:2016
6.8	3-layer interlocking wall panels	TCVN 12302
7	Group of aggregate products for concrete and mortar	
7.1	Aggregate for concrete and mortar	TCVN 7570:2006
7.2	Crushed sand.	TCVN 9205 :2012
8.	Product group of pipes and accessories for water supply and drainage	
8.1	U-PCV pipes and fittings	TCVN 8491-2:2011 TCVN 8491-3:2011
8.2	PP pipes and fittings	TCVN 10097-2:2013

		TCVN 10097-3:2013 TCVN 12304:2018 TCVN 12305:2018
8.3	PE pipes and fittings	TCVN 7305-2:2008 TCVN 7305-3:2008 TCVN 12304:2018
8.4	Underground drainage and wastewater plastic pipe systems are not pressure-resistant	TCVN 11821-3:2017 (ISO 21138- 3:2007) TCVN 9562:2017 (ISO 10639:2017)
8.5	PE-X pipes and fittings	EN ISO 15875
8.6	PE-RT pipes and fittings	EN ISO 22391
8.7	PVC-C pipes and fittings	EN ISO 15877
8.8	Pressure and non-pressure water supply plastic pipe systems - glass reinforced thermosetting plastic (grp) pipe systems based on unsaturated polyester resin (UP)	TCVN 9562:2017/ISO 10639:2017
8.9	Pipes, pipe fittings, ductile iron accessories and joints used for water pipeline works	TCVN 10177:2013 ISO 2531:2009
8.10	Pipes and fittings are used to protect and install electrical wires in the house. Cable ladder and cable tray systems used in electrical installation at construction sites	TCVN 9900 TCVN 10688 IEC 61537

LỜI CHỨNG CỦA CÔNG CHỨNG VIÊN/NOTARY TESTIMONY

Hôm nay, ngày 13 tháng 09 năm 2023 (ngày mười ba tháng chín, năm hai nghìn không trăm hai mươi ba)

Today, 13/09/2023 (the thirteenth of September in two thousand twenty three)

Tại trụ sở Văn phòng Công chứng Lại Khánh; Địa chỉ tại: A4 – TT19 KĐT Văn Quán, Yên Phúc, Phường Phúc La, Quận Hà Đông, TP Hà Nội.

At Lai Khanh Notary Office; Address: A4 – TT19 Van Quan urban area, Yen Phuc, Phuc La Ward, Ha Dong District, Hanoi City.

Tôi, công chứng viên, trong phạm vi trách nhiệm của mình theo quy định của pháp luật.

I, Notary Public, within the scope of my liability in accordance with the law.

CHỨNG NHẬN/CERTIFY THAT:

- Bản dịch này do ông Trương Công Đạt, cộng tác viên phiên dịch của Văn phòng Công chứng Lại Khánh, Thành phố Hà Nội dịch từ **tiếng Việt sang tiếng Anh**;
- This is translation from Vietnamese to English by Mr. Truong Cong Dat, who is translation collaborator of Lai Khanh Notary Office, Hanoi City;
- Chữ ký trong bản dịch đúng là chữ ký của Ông Trương Công Đạt;
- Signature in the translation is the true and authentic signature of Mr. Truong Cong Dat;
- Nội dung bản dịch chính xác, không vi phạm pháp luật, không trái đạo đức xã hội;
- The contents of the translation are correct and do not violate the law or social morality;
- Văn bản công chứng này được lập thành 02 bản chính, mỗi bản gồm 05 tờ, 05 trang, lưu 01 bản tại Văn phòng Công chứng Lại Khánh, thành phố Hà Nội.
- This Notary certificate is made into 02 originals, each original 05 sheets, 05 pages, one of which is retained in Lai Khanh Notary Office, Hanoi City.

Số công chứng: **2800**, Quyển số 01/2023 TP/CC-SCC/BD.

Notarized No.: **2800**, Book No.: 01/2023 TP/CC-SCC/BD.

NGƯỜI DỊCH

TRANSLATOR

CÔNG CHỨNG VIÊN

NOTARY PUBLIC

Dat

Trương Công Đạt



VU THỊ THUY TRANG

TRANSLATION/ BẢN DỊCH

HANOI DEPARTMENT OF
CONSTRUCTION

SOCIALIST REPUBLIC OF VIETNAM
Independence – Freedom – Happiness

CERTIFICATE
OF CONSTRUCTION ACTIVITY CAPACITY
No.: HAN-00000114

(Issued with Decision No. 41/QĐ-SXD on January 19, 2022; Decision No. 111/QĐ-SXD on March 15, 2022;
of Hanoi Department of Construction)

Organization name: CONSULTANT AND INSPECTION JOINT STOCK COMPANY
OF CONSTRUCTION TECHNOLOGY AND EQUIPMENT (CONINCO., JSC)

Business Registration Certificate/Establishment Decision No: 0100106169

1st issue on January 24, 2007

Place of issue: Hanoi Authority for Planning and Investment

Legal representative:

Mr. Nguyen Van Cong Position: Chairman of Board of management

Head office: No.4, Ton That Tung Street, Trung Tu Ward, Dong Da District, Hanoi
City, Vietnam

Tel: 02438523706

Fax:

E-mail: conincohn@coninco.com.vn

Website:

Scope of construction activities:

- Operation field: (Field/Type of Project/Class)

Design, design verification/agriculture & rural development/Class III

Valid until January 19, 2032

Construction planning/Class II

Construction supervision/agriculture & rural development/Class III

Valid until March 15, 2032

Hanoi, March 17, 2022

FOR DIRECTOR
DEPUTY DIRECTOR

(Signed and sealed)

Hoang Cao Thang

REWARD ACHIEVEMENT



Noble Awards Granted by Party and State

Year	Emulation title	Reference
2015	The third-class Labour Medal	Decision No. 2177/QĐ-CTN dated October 2nd, 2015 of the President
2014	The third-class Independence Medal	Decision No. 625/QĐ-CTN dated March 12th, 2014 of the President
2009	The first-class Labour Medal	Decision No. 513/QĐ-CTN dated April 9th, 2009 of the President
2009	The second-class Labour Medal	Decision No. 66/QĐ-CTN dated January 9th, 2009 of the President
2003	The third-class Labour Medal	Decision No. 874/QĐ-CTN dated November 26th, 2003 of the President

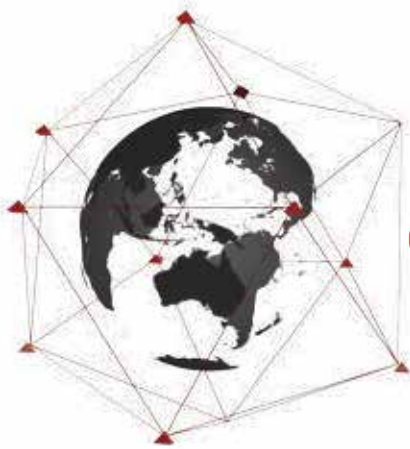
Form of Reward

Year	Awards	Reference
2018	Excellent emulation flag of The Ministry of Construction	Decision No. 634/QĐ-BXD dated 16/7/2019 of the Minister of the Ministry of Construction
2018	Excellent emulation flag of Vietnam General Confederation of Labour	Decision No. 193/QĐ-TLĐ dated 15/01/2019 of The Presidium of Vietnam General Confederation of Labour
2018	Certificate of Merit of Vietnam Construction Consultant Association	Decision No. 54/2019/QĐ-VECAS of Vietnam Construction Consultant Association
2017	Excellent emulation flag of The Ministry of Construction	Decision No. 19/QĐ-BXD dated 16/1/2017 of the Minister of the Ministry of Construction
2015	"Collective labor excellent" - 2015	Decision No. 56/QĐ-BXD dated 01/8/2016 of the Minister of The Ministry of Construction
2015	Excellent emulation flag of Labor Union of Vietnam Construction	Decision No. 06/QĐ-CDXD dated 06/01/2016 of the President of Labor Union of Vietnam Construction
2015	Certificate of Merit of the Minister of the Ministry of Transport	Decision No. 1393/QĐ-BGTVT dated 20/4/2015 of the Minister of the Ministry of Transport
2015	Certificate of Merit of Hanoi Department of Taxation	Decision No. 26065/QĐ-CT dated 28/5/2015 of Hanoi Department of Taxation
2015	Certificate of Merit of Party Central Committee	Decision No. 2147-QĐ/ĐUK dated 28/9/2015 of Party Central Committee
2015	Certificate of Merit of the Minister of The Ministry of Construction	Decision No. 758/QĐ-BXD dated 01/8/2016 of the Minister of The Ministry of Construction
2014	"Collective labor excellent" - 2014	Decision No. 706/QĐ-BXD dated 17/6/2014 of the Minister of The Ministry of Construction
2014	Excellent emulation of Party Central Committee	Decision No. 1853-QĐ/ĐUK dated 31/3/2015 of Party Central Committee
2013	Excellent emulation flag of Vietnam General Confederation of Labour	Decision No. 2128/QĐ-TLĐ dated 30/12/2013 of The Presidium of Vietnam General Confederation of Labour
2013	Excellent emulation flag of The Ministry of Construction - 2013	Decision No. 1355/QĐ-BXD dated 31/12/2013 of the Minister of The Ministry of Construction
2013	Certificate of Merit of The Ministry of Communications and Transportation	Decision No. 1752/QĐ-BGTVT dated 25/6/2013 of the Minister of The Ministry of Communications and Transportation
2013	Certificate of Merit of The Ministry of Health	Decision No. 1787/QĐ-BYT dated 24/5/2013 of the Minister of The Ministry of Health
2013	Certificate of Merit of the Central agencies' Party	Decision No. 864-QĐ/ĐUK dated 02/4/2013 of the Central agencies' Party
2012	Certificate of Merit of the President of Luang Prabang City, Laos P.D.R	Decision No. 7412/SD dated 20/12/2012 of the President of Luang Prabang city, Laos P.D.R
2012	Certificate of Merit of the Minister of Finance Ministry Laos P.D.R	Decision No. 3551/CNG dated 14/12/2012 of the Minister of Ministry of Finance of Laos P.D.R
2012	Certificate of Merit of the Minister of Ministry of Finance	Decision No. 3135/QĐ-BTC dated 11/12/2012 of the Minister of Ministry of Finance
2012	Certificate of Merit of The Ministry of Culture, Sport and Tourism	Decision No. 1265/QĐ-BVHTTDL dated 05/4/2012 of the Minister of The Ministry of Culture, Sport and Tourism
2012	"Collective labour excellent" - 2012	Decision No. 315/QĐ-BXD dated 28/3/2013 of the Minister of The Ministry of Construction
2012	Excellent emulation flag of The Ministry of Construction - 2012	Decision No. 11/QĐ-BXD dated 01/01/2013 of the Minister of the Ministry of Construction
2012	Certificate of Merit of The National Assembly Office	Decision No. 15/QĐ-VPQH dated 10/01/2012 The Chairman of National Assembly
2012	Certificate of Merit of Vietnam General Confederation of Labour	Decision No. 315/QĐ-TLĐ dated 22/01/2013 of the President of Vietnam General Confederation of Labour
2011	Excellent emulation flag of The Government - 2011	Decision No. 2476/QĐ-TTg dated 30/12/2011 of the Prime Minister
2011	"Collective labour excellent" - 2011	Decision No. 210/QĐ-BXD dated 08/3/2012 of the Minister of the Ministry of Construction
2011	Certificate of Merit of The Government of Laos P.D.R	Decision No. 44430/BNH dated 30/11/2011 of the Prime Minister of Laos P.D.R
2011	Certificate of Merit of The Ministry of Public Security	Decision No. 3079/QĐ-BCA dated 03/8/2011 of the Minister of The Ministry of Public Security
2010	Certificate of Merit of the Hanoi People's Committee	Decision No. 4913/QĐ-UBND dated 05/10/2010 of the Hanoi People's Committee

Awards

Year	Reference
2022	Top 10 Vietnamese Excellent Brands in field of Construction and Building Materials 2022
2017	Top 10 Trademarks - Typical Brand of Vietnam Construction Industry 2017
2017	Top 50 Famous brands in 2017
2017	Top 10 Sustainable Development Enterprises of Vietnam 2017
2016	Top 100 Sustainable Development Enterprises of Vietnam 2016
2013	Global Ethics Awards – UNESCO 2014
2011, 2012	VietnamExcellent Brand
2009	Community Enterprises
2003	Vietnam Golden Star

And many other noble awards presented by the Party, State and customers



CONINCO SHARING TO CONNECT

CONSULTANT AND INSPECTION JOINT STOCK COMPANY OF CONSTRUCTION TECHNOLOGY AND EQUIPMENT (CONINCO., JSC)

SYSTEM OF MEMBER COMPANIES

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CONSTRUCTION MACHINERY AND INDUSTRIAL WORKS CONINCO JOINT STOCK COMPANY
Website: www.conincomi.vn

2- CONINCO-CE

CONINCO JOINT STOCK COMPANY FOR CONSTRUCTION AND ENVIRONMENT TECHNOLOGY
Website: www.coninco-ce.com.vn

3- CONINCO-THANG LONG

CONINCO THANG LONG JOINT STOCK COMPANY
Website: www.conincothanglong.vn

4- CONINCO-3C

CONINCO 3C JOINT STOCK COMPANY
Website: www.coninco3c.vn

5- CONINCO-HOUSING

CONSTRUCTION CONSULTANT AND HOUSING DEVELOPMENT CONINCO JOINT STOCK COMPANY
Website: www.coninco-housing.com.vn

6- CONINCO-VJ

CONINCO VIETNAM JAPAN TRADE & CONSTRUCTION JOINT STOCK COMPANY
Website: www.conincovj.com

7- CONIMEC

CONINCO MECHANICAL AND ELECTRICAL ENGINEERING JOINT STOCK COMPANY
Website: www.conimec.vn

8- CONSAFE

CONINCO SAFETY JOINT STOCK COMPANY

9- CONINCO-LAOS

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