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## Certificate of Accreditation

International Accreditation Japan (IAJapan) hereby accredits the following conformity assessment body as a testing laboratory of Japan National Laboratory Accreditation System.

Accreditation Identification: JNLA Z80107JP Testing

Name of Conformity Assessment Body: Kansai Materials Techno Testing Lab.,  
Japan Quality Assurance Organization (JQA)

Name of Legal Entity: Japan Quality Assurance Organization

Location of Conformity Assessment Body: 3-8-19, Mizuhai, Higashi-Osaka-shi, Osaka, 578-0921,  
JAPAN

(Related office(s) : as the following pages)

Scope of Accreditation: as the following pages

Accreditation Requirement: ISO/IEC 17025:2017\*

\* The relevant accreditation requirements described in the Accreditation Scheme Document for JNLA are also applied.

Effective Date of Accreditation: As the following pages

Expiry Date of Accreditation: 2026-03-15

Date of Initial Accreditation: 2006-03-16

**ISHIGE Hiromi**

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Chief Executive, International Accreditation Japan (IAJapan)

National Institute of Technology and Evaluation

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- International Accreditation Japan (IAJapan) is a laboratory accreditation body which has signed MRAs of ILAC (International Laboratory Accreditation Cooperation) and APAC (Asia Pacific Accreditation Cooperation).
  - MRA requirements are, in addition to relevant international standards and guides, requirements for participation in proficiency testing programs, surveillance and reassessment, and the policy for the traceability of measurement for MRA purpose.
  - This laboratory fulfills ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories. This accreditation means this laboratory meets both the technical competence requirements and management system requirements that are necessary for it to consistently deliver technically valid test results and calibrations (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).
  - The latest accreditation information is publicly available on IAJapan Website as an accreditation certificate.

Name of Laboratory: Kansai Materials Techno Testing Lab., Japan Quality Assurance Organization (JQA)  
Address: 3-8-19, Mizuhai, Higashi-Osaka-shi, Osaka, 578-0921, JAPAN  
Conformity Assessment Activity: Testing, Reporting of Result and Management Requirement Operation(All Accreditation Scope)

Name of Office: Materials Techno Sector, Japan Quality Assurance Organization(Executive Officer, Materials Techno, General Manager and Planning and Coordination Bureau)  
(Kanto Materials Techno Testing Lab)  
Address: 1-8-12, Higashi-ooi, Shinagawa-ku, Tokyo, 140-0011, JAPAN  
Conformity Assessment Activity: Management System Supervision

<Scope of Accreditation>

| Effective Date of Accreditation: 2022-03-16 |                       |                                                             |                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |         |
|---------------------------------------------|-----------------------|-------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| Scope of Accreditation                      | Materials or Products | Test Type (Testing Method(s))                               | Component, Parameter or Characteristic Tested                                                                                                                                                                                                                                                                                                          | Number(s) of JIS, clause and sub-clause                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Notices |
| Civil Engineering and Architecture          | Building Materials    | Aggregates testing                                          | Mass, Mass fraction, Fineness modulus, Content of materials finer than 75 $\mu$ m sieve, Bulk density, Solid content, Comparison with standard color solution, Density insaturated surface-drycondition, Dry density, Absorption, Abrasion loss, Loss mass fraction, Content of clay lumps, Alkali-silica reactivity (chemical method), Expansion rate | Testing Method Standard(s)<br>JIS A 1102<br>JIS A 1103<br>JIS A 1104<br>JIS A 1105<br>JIS A 1109<br>JIS A 1110<br>JIS A 1121<br>JIS A 1122<br>JIS A 1137<br>JIS A 1145 (8.3 is limited to c) )<br>JIS A 1146                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | -       |
|                                             |                       |                                                             |                                                                                                                                                                                                                                                                                                                                                        | Quotation Standard(s)<br>JIS A 5001 5.2, 5.3 and 5.4<br>JIS A 5002 5.6, 5.7, 5.8, 5.9 and 5.10<br>JIS A 5005 7.2, 7.3, 7.4, 7.5, 7.6, 7.7 and 7.8<br>JIS A 5011-1 6.3, 6.4, 6.5 and 6.6<br>JIS A 5011-2 6.2.2, 6.2.3, 6.3.1, 6.3.2 and 6.4<br>JIS A 5011-3 6.2.2, 6.2.3, 6.3.1, 6.3.2 and 6.4<br>JIS A 5011-4 6.3, 6.4, 6.5, 6.6 and 6.7<br>JIS A 5015 7.4, 7.6, 7.7 and 7.8<br>JIS A 5021 7.4, 7.5, 7.6, 7.7 (Except Appendix D), 7.8 and 7.9<br>JIS A 5022 Appendix A A.5.4, A.5.5, A.5.7.1, A.5.7.2, A.5.8 and A.5.9<br>JIS A 5023 Appendix A A.5.3, A.5.4, A.5.5.1, A.5.5.2 and A.5.6<br>JIS A 5031 6.3, 6.4, 6.5, 6.6, 6.7 (Except JIS A 1804) and 6.8<br>JIS A 5032 6.2, 6.3 and 6.4<br>JIS A 5308 Appendix JA JA.10.a), JA.10.b), JA.10.c), JA.10.d), JA.10.e), JA.10.f), JA.10.g), JA.10.h), JA.10.k), JA.10.n) and JA.10.o) | -       |
|                                             |                       | Strength testing of concrete and cement inorganic materials | Flexural strength, Compressive strength                                                                                                                                                                                                                                                                                                                | Testing Method Standard(s)<br>JIS A 1106 (Except making test piece)<br>JIS A 1108 (Except making test piece and Appendix A)<br>JIS R 5201 11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | -       |
|                                             |                       |                                                             |                                                                                                                                                                                                                                                                                                                                                        | Quotation Standard(s)<br>JIS A 1107 8<br>JIS A 5308 10.2.1, 10.2.2, Appendix JC JC.7.1.8 and JC.7.2.5<br>JIS R 5210 6.1<br>JIS R 5211 6.1<br>JIS R 5212 6.1<br>JIS R 5213 6.1<br>JIS R 5214 7.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | -       |
|                                             |                       | Testing for concrete or admixtures                          | Time of setting of concrete mixtures                                                                                                                                                                                                                                                                                                                   | Testing Method Standard(s)<br>JIS R 5201 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -       |
|                                             |                       |                                                             |                                                                                                                                                                                                                                                                                                                                                        | Quotation Standard(s)<br>JIS A 5308 Appendix JC JC.7.1.7 and JC.7.2.4<br>JIS R 5210 6.1<br>JIS R 5211 6.1<br>JIS R 5212 6.1<br>JIS R 5213 6.1<br>JIS R 5214 7.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | -       |

| Scope of Accreditation                                               | Materials or Products                               | Test Type (Testing Method(s))                                           | Component, Parameter or Characteristic Tested                                      | Number(s) of JIS, clause and sub-clause                                                                                                                                                                                                                                                                                                                                                                                                                                                | Notices                                 |
|----------------------------------------------------------------------|-----------------------------------------------------|-------------------------------------------------------------------------|------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|
| Cont.                                                                | Cont.                                               | Chemical analysis testing of aggregate, cement, and concrete            | Chloride content                                                                   | Testing Method Standard(s)<br>JIS A 5002 5.5                                                                                                                                                                                                                                                                                                                                                                                                                                           | -                                       |
|                                                                      |                                                     |                                                                         |                                                                                    | Quotation Standard(s)<br>JIS A 5021 7.10 a)<br>JIS A 5022 Appendix A A.5.10 a)<br>JIS A 5023 Appendix A A.5.7 a)                                                                                                                                                                                                                                                                                                                                                                       | -                                       |
|                                                                      |                                                     | Wet weight, weight loss, residue, and ash testing                       | Amount of suspended matter, Soluble evaporation residue                            | Testing Method Standard(s)<br>JIS A 5308 Appendix JC JC.7.1.4 and JC.7.1.5                                                                                                                                                                                                                                                                                                                                                                                                             | -                                       |
|                                                                      |                                                     | Chloride ion content test in solution (potentiometric titration method) | Chloride concentration                                                             | Testing Method Standard(s)<br>JIS K 0113 5.                                                                                                                                                                                                                                                                                                                                                                                                                                            | -                                       |
| Ferrous Materials and Metallurgy / Non-Ferrous Metals and Metallurgy | Ferrous Materials and Metallurgy, Surface finishing | Tensile test for metallic materials                                     | Yield point or Yield strength, Tensile strength, Yield ratio, Elongation, Aperture | Testing Method Standard(s)<br>JIS Z 2241<br>JIS Z 3121 (Limited to steel materials of "JIS A 5525、 JIS G 3106 and JIS G 3112")                                                                                                                                                                                                                                                                                                                                                         | -                                       |
|                                                                      |                                                     |                                                                         |                                                                                    | Quotation Standard(s)<br>JIS G 0307 6.2.2.3.1<br>JIS G 3101 9.2.5 a)<br>JIS G 3106 11.2.5 a)<br>JIS G 3112 10.2.2 b)<br>JIS G 3131 9.2.2 b)<br>JIS G 3136 12.2.5 a)<br>JIS G 3141 11.2.2 b)<br>JIS G 3452 11.2.3 b)<br>JIS G 3532 11.2 a)<br>JIS G 3547 11.2 b)<br>JIS G 3548 11.2 b)<br>JIS G 4303 11.2.5 a)<br>JIS G 4304 11.2.5 a)<br>JIS G 4305 11.2.5 a)<br>JIS G 4309 8.1.3<br>JIS G 4315 9.1.3<br>JIS G 5121 12.3.1<br>JIS G 5501 9.5.2(1)<br>JIS G 5705 12.1<br>JIS Z 3120 6.2 | -                                       |
|                                                                      |                                                     |                                                                         |                                                                                    | Testing Method Standard(s)<br>JIS Z 2244-1                                                                                                                                                                                                                                                                                                                                                                                                                                             | -                                       |
|                                                                      |                                                     |                                                                         |                                                                                    | Quotation Standard(s)<br>JIS G 4303 11.2.5 c) 2)<br>JIS G 4304 11.2.5 b) 2)<br>JIS G 4305 11.2.5 b) 2)                                                                                                                                                                                                                                                                                                                                                                                 | -                                       |
|                                                                      |                                                     | Bend test for metallic materials                                        | Bend, Fracture, Crack, Imperfection                                                | Testing Method Standard(s)<br>JIS Z 2248<br>JIS Z 3040 (Limited to steel materials of "JIS G 3106")<br>JIS Z 3122 (Limited to steel materials of "JIS G 3106")                                                                                                                                                                                                                                                                                                                         | Fracture is limited to "JIS Z 3120 6.3" |
|                                                                      |                                                     |                                                                         |                                                                                    | Quotation Standard(s)<br>JIS G 3112 10.2.3 b)<br>JIS Z 3040 Appendix 2.2<br>JIS Z 3120 6.3<br>JIS Z 3122 6.3.1                                                                                                                                                                                                                                                                                                                                                                         | -                                       |
|                                                                      |                                                     | Galvanized plating mass test                                            | Plating mass                                                                       | Testing Method Standard(s)<br>JIS G 3537<br>JIS G 3547<br>JIS G 3548                                                                                                                                                                                                                                                                                                                                                                                                                   | -                                       |
|                                                                      |                                                     |                                                                         |                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                         |
|                                                                      |                                                     |                                                                         |                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                         |
|                                                                      |                                                     |                                                                         |                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                         |

| Scope of Accreditation | Materials or Products | Test Type (Testing Method(s))             | Component, Parameter or Characteristic Tested | Number(s) of JIS, clause and sub-clause                                                                                                                                                                                  | Notices |
|------------------------|-----------------------|-------------------------------------------|-----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| Cont.                  | Cont.                 | Cont.                                     | Cont.                                         | Quotation Standard(s)<br>JIS G 3547 11.4<br>JIS G 3548 11.4<br>JIS G 3552 10                                                                                                                                             | -       |
|                        |                       | Charpy impact test for metallic materials | Absorbed energy                               | Testing Method Standard(s)<br>JIS Z 2242                                                                                                                                                                                 | -       |
|                        |                       |                                           |                                               | Quotation Standard(s)<br>JIS B 2312 13.3<br>JIS B 2313 13.3<br>JIS G 3106 11.2.5 b)<br>JIS G 3136 12.2.5 b)<br>JIS G 4303 11.2.5 b)                                                                                      | -       |
|                        |                       |                                           |                                               | Testing Method Standard(s)<br>JIS Z 2243-1                                                                                                                                                                               | -       |
|                        |                       | Brinell hardness test                     | Hardness (HB)                                 | Quotation Standard(s)<br>JIS G 4303 11.2.5 c) 1)<br>JIS G 4304 11.2.5 b) 1)<br>JIS G 4305 11.2.5 b) 1)<br>JIS G 5121 12.3.1 (Only when hardness(BH) is specified by JIS G 0307 Appendix B B.4.2 )<br>JIS G 5501 9.5.2(2) | -       |

| Effective Date of Accreditation: 2022-07-20 |                       |                                                      |                                               |                                                                                                                         |         |
|---------------------------------------------|-----------------------|------------------------------------------------------|-----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|---------|
| Scope of Accreditation                      | Materials or Products | Test Type (Testing Method(s))                        | Component, Parameter or Characteristic Tested | Number(s) of JIS, clause and sub-clause                                                                                 | Notices |
| Chemical Products                           | Chemical Products     | Polymeric tension testing                            | Tensile characteristics                       | Testing Method Standard(s)<br>JIS K 7161-1 (Except making test piece, tensile strain and tensile elastic modulus)       | -       |
|                                             |                       |                                                      |                                               | Quotation Standard(s)<br>JIS A 7511 7.2 and 7.3                                                                         | -       |
|                                             |                       | Bending testing of polymeric material                | Bending characteristics                       | Testing Method Standard(s)<br>JIS K 7171 (Except making test piece, bending strain and bending elastic modulus)         | -       |
|                                             |                       |                                                      |                                               | Quotation Standard(s)<br>JIS A 7511 7.2 and 7.3                                                                         | -       |
|                                             |                       | Compressive properties testing of polymeric material | Compression characteristics                   | Testing Method Standard(s)<br>JIS K 7181 (Except making test piece, compression strain and compression elastic modulus) | -       |
|                                             |                       |                                                      |                                               | Quotation Standard(s)<br>JIS A 7511 7.2 and 7.3                                                                         | -       |

Remarks: The latest scope of accreditation that are published on the official gazetta, IAJapan web site and so on are applied to the detail of scope of accreditation.

(End of Certificate)