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| Name of Accreditation Program               | JCSS Accreditation Program   |
| Accreditation No.                           | JCSS0066   |
| Date of Initial Accreditation               | 1996-06-18   |
| Latest Date of Issue                        | 2017-12-21   |
| Name and Address of Accredited Organization | Murakami Koki Co., Ltd.<br>2-10-31 Akagawa, Asahi-ku, Osaka 535-0005, Japan<br>JCN 7120001001210 |
| Inquiry Point                               | Calibration Department<br>Tel: +81-6-6928-7571    FAX: +81-6-6928-1099                           |
| Accreditation Standards                     | ISO/IEC 17025:2005 (Calibration)   |
| Accreditation Scope                         | As attached  |

\*JCN : Japan Corporate Number

General Field of Calibration : Mass

Date of Initial Accreditation of the Field : 1996-06-18

Permanent Laboratory/On-site Calibration : Permanent Laboratory

| Type of service              |        | Calibration scope | CMC<br>(Level of Confidence Approximately 95 %) |      |
|------------------------------|--------|-------------------|---|------|
| Weight                       | Weight | 1000 kg           | 16 g  |      |
|                              |        | 500 kg            | 8.3 g   |      |
|                              |        | 200 kg            | 4.3 g   |      |
|                              |        | 100 kg            | 0.36 g  |      |
|                              |        | 50 kg             | 0.18 g  |      |
|                              |        | 20 kg             | 3.8 mg  |      |
|                              |        | 10 kg             | 2.2 mg  |      |
|                              |        | 5 kg              | 1.2 mg  |      |
|                              |        | 2 kg              | 0.45 mg   |      |
|                              |        | 1 kg              | 0.18 mg   |      |
|                              |        | 500 g             | 0.093 mg  |      |
|                              |        | 200 g             | 0.044 mg  |      |
|                              |        | 100 g             | 0.019 mg  |      |
|                              |        | 50 g              | 0.013 mg  |      |
|                              |        | 20 g              | 0.012 mg  |      |
|                              |        | 10 g              | 0.0080 mg                                       |      |
|                              |        | 5 g               | 0.0062 mg                                       |      |
|                              |        | 2 g               | 0.0050 mg                                       |      |
|                              |        | 1 g               | 0.0038 mg                                       |      |
|                              |        | 500 mg            | 0.0036 mg                                       |      |
|                              |        | 200 mg            | 0.0030 mg                                       |      |
|                              |        | 100 mg            | 0.0024 mg                                       |      |
|                              |        | 50 mg             | 0.0019 mg                                       |      |
|                              |        | 20 mg             | 0.0017 mg                                       |      |
|                              |        | 10 mg             | 0.0015 mg                                       |      |
|                              |        | 5 mg              | 0.0014 mg                                       |      |
|                              |        | 2 mg              | 0.0014 mg                                       |      |
|                              |        | 1 mg              | 0.0013 mg                                       |      |
|                              |        | 0.5 mg            | 0.00067 mg                                      |      |
|                              |        | 0.2 mg            | 0.00039 mg                                      |      |
|                              |        | 0.1 mg            | 0.00033 mg                                      |      |
|                              |        | Deadweight        | From 1000 kg up to 1100 kg                      | 17 g |
|                              |        |                   | From 500 kg less than 1000 kg                   | 15 g |
| From 200 kg less than 500 kg | 7.6 g  |                   |   |      |
| From 140 kg less than 200 kg | 3.4 g  |                   |   |      |
| From 100 kg less than 140 kg | 0.46 g |                   |   |      |
| From 50 kg less than 100 kg  | 0.32 g |                   |   |      |

|                            |                          |                                 |          |
|----------------------------|--------------------------|---------------------------------|----------|
| Weight<br>(Continue)       | Deadweight<br>(Continue) | More than 26 kg less than 50 kg | 0.15 g   |
|                            |                          | More than 20 kg up to 26 kg     | 26 mg    |
|                            |                          | From 10 kg up to 20 kg          | 23 mg    |
|                            |                          | From 5 kg less than 10 kg       | 13 mg    |
|                            |                          | From 2 kg less than 5 kg        | 7.0 mg   |
|                            |                          | From 1 kg less than 2 kg        | 3.4 mg   |
|                            |                          | From 500 g less than 1 kg       | 1.3 mg   |
|                            |                          | From 200 g less than 500 g      | 0.73 mg  |
|                            |                          | From 100 g less than 200 g      | 0.41 mg  |
|                            |                          | From 50 g less than 100 g       | 0.30 mg  |
|                            |                          | From 20 g less than 50 g        | 0.23 mg  |
|                            |                          | From 10 g less than 20 g        | 0.17 mg  |
|                            |                          | From 5 g less than 10 g         | 0.13 mg  |
|                            |                          | From 2 g less than 5 g          | 0.11 mg  |
|                            |                          | From 1 g less than 2 g          | 0.080 mg |
|                            |                          | From 500 mg less than 1 g       | 0.062 mg |
|                            |                          | From 200 mg less than 500 mg    | 0.045 mg |
|                            |                          | From 100 mg less than 200 mg    | 0.031 mg |
|                            |                          | From 50 mg less than 100 mg     | 0.021 mg |
|                            |                          | From 20 mg less than 50 mg      | 0.013 mg |
| From 10 mg less than 20 mg | 0.006 mg                 |                                 |          |
| From 5 mg less than 10 mg  | 0.005 mg                 |                                 |          |
| From 2 mg less than 5 mg   | 0.005 mg                 |                                 |          |
| From 1 mg less than 2 mg   | 0.005 mg                 |                                 |          |

Permanent Laboratory/On-site Calibration : Permanent Laboratory and On-site Calibration

| Type of service |  | Calibration scope             | CMC<br>(Level of Confidence Approximately 95 %) |                     |
|-----------------|--|-------------------------------|---|---------------------|
|                 |  |                               | Permanent Laboratory                            | On-site Calibration |
| Scale           | Non-automatic<br>Electronic<br>Weighing<br>Instruments | More than 0 g up to 10 g      | 0.04 mg   | 0.06 mg             |
|                 |  | More than 10 g up to 20 g     | 0.07 mg   | 0.11 mg             |
|                 |  | More than 20 g up to 30 g     | 0.10 mg   | 0.16 mg             |
|                 |  | More than 30 g up to 50 g     | 0.12 mg   | 0.21 mg             |
|                 |  | More than 50 g up to 100 g    | 0.14 mg   | 0.25 mg             |
|                 |  | More than 100 g up to 150 g   | 0.21 mg   | 0.37 mg             |
|                 |  | More than 150 g up to 220 g   | 0.31 mg   | 0.54 mg             |
|                 |  | More than 220 g up to 250 g   | 0.7 mg  | 0.9 mg              |
|                 |  | More than 250 g up to 300 g   | 0.8 mg  | 1.0 mg              |
|                 |  | More than 300 g up to 400 g   | 1.0 mg  | 1.3 mg              |
|                 |  | More than 400 g up to 410 g   | 1.1 mg  | 1.4 mg              |
|                 |  | More than 410 g up to 450 g   | 1.2 mg  | 1.5 mg              |
|                 |  | More than 450 g up to 510 g   | 1.4 mg  | 1.8 mg              |
|                 |  | More than 510 g up to 610 g   | 1.6 mg  | 2.1 mg              |
|                 |  | More than 610 g up to 1000 g  | 3 mg  | 4 mg                |
|                 |  | More than 1000 g up to 1200 g | 4 mg  | 5 mg                |

|                               |  |                                 |         |         |
|-------------------------------|--|---------------------------------|---------|---------|
| Scale<br>(Continue)           | Non-automatic<br>Electronic<br>Weighing<br>Instruments<br>(Continue) | More than 1200 g up to 1500 g   | 5 mg    | 6 mg    |
|                               |  | More than 1500 g up to 2300 g   | 6 mg    | 8 mg    |
|                               |  | More than 2300 g up to 2500 g   | 7 mg    | 9 mg    |
|                               |  | More than 2500 g up to 3000 g   | 8 mg    | 10 mg   |
|                               |  | More than 3000 g up to 4000 g   | 10 mg   | 13 mg   |
|                               |  | More than 4000 g up to 5100 g   | 13 mg   | 17 mg   |
|                               |  | More than 5100 g up to 6000 g   | 15 mg   | 20 mg   |
|                               |  | More than 6000 g up to 8000 g   | 20 mg   | 26 mg   |
|                               |  | More than 8000 g up to 9000 g   | 22 mg   | 29 mg   |
|                               |  | More than 9000 g up to 12000 g  | 30 mg   | 38 mg   |
|                               |  | More than 12000 g up to 12100 g | 30 mg   | 39 mg   |
|                               |  | More than 12100 g up to 15 kg   | 37 mg   | 48 mg   |
|                               |  | More than 15 kg up to 22 kg     | 70 mg   | 0.12 g  |
|                               |  | More than 22 kg up to 30 kg     | 94 mg   | 0.16 g  |
|                               |  | More than 30 kg up to 40 kg     | 0.30 g  | 0.34 g  |
|                               |  | More than 40 kg up to 52 kg     | 0.33 g  | 0.39 g  |
|                               |  | More than 52 kg up to 80 kg     | 0.60 g  | 0.70 g  |
|                               |  | More than 80 kg up to 120 kg    | 0.90 g  | 1.1 g   |
|                               |  | More than 120 kg up to 150 kg   | 1.1 g   | 1.3 g   |
|                               |  | More than 150 kg up to 200 kg   | 1.6 g   | 2.0 g   |
|                               |  | More than 200 kg up to 250 kg   | 2.5 g   | 2.5 g   |
|                               |  | More than 250 kg up to 380 kg   | 3.5 g   | 4.0 g   |
|                               |  | More than 380 kg up to 500 kg   | 4.0 g   | 5.0 g   |
|                               |  | More than 500 kg up to 800 kg   | 7 g     | 8 g     |
|                               | More than 800 kg up to 1200 kg                                       | 10 g                            | 11 g    |         |
|                               | More than 1200 kg up to 1600 kg                                      | 12 g                            | 14 g    |         |
|                               | Non-automatic<br>Mechanical<br>Weighing<br>Instruments               | More than 0 g up to 20 g        | 0.07 mg | 0.08 mg |
|                               |  | More than 20 g up to 40 g       | 0.10 mg | 0.10 mg |
|                               |  | More than 40 g up to 60 g       | 0.11 mg | 0.12 mg |
|                               |  | More than 60 g up to 80 g       | 0.13 mg | 0.14 mg |
|                               |  | More than 80 g up to 120 g      | 0.13 mg | 0.15 mg |
|                               |  | More than 120 g up to 160 g     | 0.17 mg | 0.19 mg |
|                               |  | More than 160 g up to 200 g     | 0.17 mg | 0.20 mg |
|                               |  | More than 200 g up to 220 g     | 1.2 mg  | 1.6 mg  |
|                               |  | More than 220 g up to 400 g     | 3.5 mg  | 4.0 mg  |
| More than 400 g up to 600 g   |  | 4.0 mg                          | 5.0 mg  |         |
| More than 600 g up to 800 g   |  | 4.5 mg                          | 6.0 mg  |         |
| More than 800 g up to 1000 g  |  | 5.5 mg                          | 7.0 mg  |         |
| More than 1000 g up to 2000 g |  | 70 mg                           | 90 mg   |         |
| More than 2000 g up to 3000 g |  | 80 mg                           | 0.11 g  |         |
| More than 3000 g up to 4000 g |  | 0.10 g                          | 0.14 g  |         |
| More than 4000 g up to 5000 g |  | 0.12 g                          | 0.16 g  |         |
| More than 5000 g up to 6000 g |  | 1.0 g                           | 1.4 g   |         |
| More than 6000 g up to 8000 g | 1.2 g  | 1.7 g                           |         |         |
| More than 8000 g up to 10 kg  | 1.4 g  | 2.1 g                           |         |         |
| More than 10 kg up to 15 kg   | 9 g  | 11 g                            |         |         |

|                     |  |                                 |         |         |
|---------------------|--|---------------------------------|---------|---------|
| Scale<br>(Continue) | Non-automatic<br>Mechanical<br>Weighing<br>Instruments<br>(Continue) | More than 15 kg up to 20 kg     | 10 g    | 14 g    |
|                     |  | More than 20 kg up to 25 kg     | 12 g    | 16 g    |
|                     |  | More than 25 kg up to 30 kg     | 18 g    | 22 g    |
|                     |  | More than 30 kg up to 40 kg     | 20 g    | 28 g    |
|                     |  | More than 40 kg up to 50 kg     | 24 g    | 32 g    |
|                     |  | More than 50 kg up to 60 kg     | 50 g    | 70 g    |
|                     |  | More than 60 kg up to 80 kg     | 60 g    | 85 g    |
|                     |  | More than 80 kg up to 100 kg    | 75 g    | 0.11 kg |
|                     |  | More than 100 kg up to 150 kg   | 0.10 kg | 0.14 kg |
|                     |  | More than 150 kg up to 200 kg   | 0.12 kg | 0.17 kg |
|                     |  | More than 200 kg up to 250 kg   | 0.15 kg | 0.21 kg |
|                     |  | More than 250 kg up to 300 kg   | 0.20 kg | 0.28 kg |
|                     |  | More than 300 kg up to 400 kg   | 0.24 kg | 0.34 kg |
|                     |  | More than 400 kg up to 500 kg   | 0.30 kg | 0.42 kg |
|                     |  | More than 500 kg up to 600 kg   | 0.50 kg | 0.70 kg |
|                     |  | More than 600 kg up to 800 kg   | 0.60 kg | 0.85 kg |
|                     |  | More than 800 kg up to 1000 kg  | 0.75 kg | 1.1 kg  |
|                     |  | More than 1000 kg up to 1280 kg | 1.2 kg  | 1.7 kg  |
|                     |  | More than 1280 kg up to 1600 kg | 1.5 kg  | 2.1 kg  |