

# Quality And Accreditation Institute

## Centre for Laboratory Accreditation



### Certificate of Accreditation

**Mitra S. K. Private Limited**

Holding No. E-5-138/157, Ward No. 23, Gangarampur Road, Phase-2 R.H.S  
to Behala, P.S- Maheshlata, 24 Paraganas South,  
Kolkata- 700141, West Bengal, India

has been assessed and accredited in accordance with the Standard  
**ISO/IEC 17025:2017**

“General Requirements for the Competence of Testing and Calibration Laboratories”  
In the field of  
**Testing**

This certificate remains valid for the Scope of Accreditation as specified  
in the annexure subject to continued compliance to the above standard &  
any other requirements specified by QAI.



**QAI/CLA/TL/2023/0015**

Valid from: 13 July 2023

Valid until: 12 July 2025

**Dr. Bhupendra Kumar Rana**  
Chief Executive Officer

**Prof. Vikram Kumar**  
Chair, CLA



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**Accreditation Standard: ISO/IEC 17025:2017**

| Chemical Testing |                             |                              |                                |
|------------------|-----------------------------|------------------------------|--------------------------------|
| Sl. No.          | Product(s)/Material of Test | Specific Tests Performed     | Test Method                    |
|                  | <b>Building Materials</b>   |                              |                                |
| 1.               | Cement                      | Aluminum Oxide ( $Al_2O_3$ ) | IS 4032:1985, RA 2019          |
| 2.               | Cement                      | Aluminum Oxide ( $Al_2O_3$ ) | ASTM C114-18                   |
| 3.               | Cement                      | Calcium Oxide (CaO)          | IS 4032:1985, RA 2019          |
| 4.               | Cement                      | Calcium Oxide (CaO)          | ASTM C114-18                   |
| 5.               | Cement                      | Chloride (Cl)                | IS 4032:1985, Amendment-2:2010 |
| 6.               | Cement                      | Free Calcium Oxide (CaO)     | IS 4032 :1985, RA 2019         |
| 7.               | Cement                      | Free Calcium Oxide (CaO)     | ASTM C114-18                   |
| 8.               | Cement                      | Insoluble Residue            | IS 4032 :1985, RA 2019         |
| 9.               | Cement                      | Insoluble Residue            | ASTM C114-18                   |
| 10.              | Cement                      | Iron Oxide ( $Fe_2O_3$ )     | IS 4032:1985, RA 2019          |
| 11.              | Cement                      | Iron Oxide ( $Fe_2O_3$ )     | ASTM C114-18                   |
| 12.              | Cement                      | Loss on Ignition (LOI)       | IS 4032:1985, RA 2019          |
| 13.              | Cement                      | Loss on Ignition (LOI)       | ASTM C114-18                   |
| 14.              | Cement                      | Magnesium Oxide (MgO)        | IS 4032:1985, RA 2019          |
| 15.              | Cement                      | Magnesium Oxide (MgO)        | ASTM C114-18                   |
| 16.              | Cement                      | Potassium Oxide ( $K_2O$ )   | ASTM C114-18                   |
| 17.              | Cement                      | Silica ( $SiO_2$ )           | IS 4032:1985, RA 2019          |
| 18.              | Cement                      | Silica ( $SiO_2$ )           | ASTM C114-18                   |
| 19.              | Cement                      | Sodium Oxide ( $Na_2O$ )     | ASTM C114-18                   |
| 20.              | Cement                      | Sulphur Trioxide ( $SO_3$ )  | IS 4032:1985, RA 2019          |
| 21.              | Cement                      | Sulphur Trioxide ( $SO_3$ )  | ASTM C114-18                   |
| 22.              | Clinker                     | Iron Oxide ( $Fe_2O_3$ )     | IS 4032:1985, RA 2019          |
| 23.              | Clinker                     | Aluminum Oxide ( $Al_2O_3$ ) | IS 4032:1985, RA 2019          |
| 24.              | Clinker                     | Aluminum Oxide ( $Al_2O_3$ ) | ASTM C114-18                   |
| 25.              | Clinker                     | Calcium Oxide (CaO)          | IS 4032:1985, RA 2019          |

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|------------------|-----------------------------|--------------------------------------------------|-------------------------------------|
| Sl. No.          | Product(s)/Material of Test | Specific Tests Performed                         | Test Method                         |
|                  | <b>Building Materials</b>   |                                                  |                                     |
| 26.              | Clinker                     | Calcium Oxide (CaO)                              | ASTM C114-18                        |
| 27.              | Clinker                     | Chloride (Cl)                                    | IS 4032:1985(Amendment- 2)<br>:2010 |
| 28.              | Clinker                     | Free calcium oxide (CaO)                         | IS 4032 :1985, RA 2019              |
| 29.              | Clinker                     | Free calcium oxide (CaO)                         | ASTM C114-18                        |
| 30.              | Clinker                     | Insoluble Residue                                | IS 4032 :1985, RA 2019              |
| 31.              | Clinker                     | Insoluble Residue                                | ASTM C114-18                        |
| 32.              | Clinker                     | Iron Oxide (Fe <sub>2</sub> O <sub>3</sub> )     | ASTM C114-18                        |
| 33.              | Clinker                     | Loss on Ignition (LOI)                           | IS 4032:1985. RA 2019               |
| 34.              | Clinker                     | Loss on Ignition (LOI)                           | ASTM C114-18                        |
| 35.              | Clinker                     | Magnesium Oxide (MgO)                            | IS 4032:1985, RA 2019               |
| 36.              | Clinker                     | Magnesium Oxide (MgO)                            | ASTM C114-18                        |
| 37.              | Clinker                     | Potassium Oxide(K <sub>2</sub> O)                | ASTM C114-18                        |
| 38.              | Clinker                     | Silica (SiO <sub>2</sub> )                       | IS 4032:1985, RA 2019               |
| 39.              | Clinker                     | Silica (SiO <sub>2</sub> )                       | ASTM C114-18                        |
| 40.              | Clinker                     | Sodium Oxide (Na <sub>2</sub> O)                 | ASTM C114-18                        |
| 41.              | Clinker                     | Sulphur Trioxide (SO <sub>3</sub> )              | IS 4032:1985, RA 2019               |
| 42.              | Clinker                     | Sulphur Trioxide (SO <sub>3</sub> )              | ASTM C114-18                        |
| 43.              | Fly Ash                     | Aluminum Oxide (Al <sub>2</sub> O <sub>3</sub> ) | IS 1727 :1967, RA 2018              |
| 44.              | Fly Ash                     | Calcium oxide (CaO)                              | IS 1727 :1967, RA 2018              |
| 45.              | Fly Ash                     | Iron Oxide (Fe <sub>2</sub> O <sub>3</sub> )     | IS 1727 :1967, RA 2018              |
| 46.              | Fly Ash                     | Loss on Ignition                                 | IS 1727 :1967, RA 2018              |
| 47.              | Fly Ash                     | Magnesium Oxide (MgO)                            | IS 1727 :1967, RA 2018              |
| 48.              | Fly Ash                     | Potassium oxide (K <sub>2</sub> O)               | ASTM C114-18                        |
| 49.              | Fly Ash                     | Silicon dioxide (SiO <sub>2</sub> )              | IS 1727 :1967, RA 2018              |
| 50.              | Fly Ash                     | Sodium Oxide (Na <sub>2</sub> O)                 | ASTM C114-18                        |

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| Chemical Testing |                                                          |                                           |                                               |
|------------------|----------------------------------------------------------|-------------------------------------------|-----------------------------------------------|
| Sl. No.          | Product(s)/Material of Test                              | Specific Tests Performed                  | Test Method                                   |
|                  | <b>Building Materials</b>                                |                                           |                                               |
| 51.              | Fly Ash                                                  | Sulphur trioxide (SO <sub>3</sub> )       | IS 1727 :1967, RA 2018                        |
| 52.              | Blast Furnace Slag/ Ground Granulated Blast Furnace Slag | Alumina (Al <sub>2</sub> O <sub>3</sub> ) | TPM/MSK/60/E (Issue No-01, dated 01.04.2020)  |
| 53.              | Blast Furnace Slag/ Ground Granulated Blast Furnace Slag | Calcium Oxide (CaO)                       | TPM/MSK/60/B (Issue No-01, dated 01.04.2020)  |
| 54.              | Blast Furnace Slag/ Ground Granulated Blast Furnace Slag | Ferrous Oxide (FeO)                       | TPM/MSK/60/D (Issue No-01, dated 01.04.2020)  |
| 55.              | Blast Furnace Slag/ Ground Granulated Blast Furnace Slag | Insoluble Residue                         | TPM/MSK/60/F (Issue No-01, dated 01.04.2020)  |
| 56.              | Blast Furnace Slag/ Ground Granulated Blast Furnace Slag | Magnesium Oxide (MgO)                     | TPM/MSK/60/C (Issue No-01, dated 01.04.2020)  |
| 57.              | Blast Furnace Slag/ Ground Granulated Blast Furnace Slag | Potassium Oxide(K <sub>2</sub> O)         | TPM/MSK/60/ H (Issue No-02, dated 01.10.2022) |
| 58.              | Blast Furnace Slag/ Ground Granulated Blast Furnace Slag | Silica (SiO <sub>2</sub> )                | TPM/MSK/60/A (Issue No-01, dated 01.04.2020)  |
| 59.              | Blast Furnace Slag/ Ground Granulated Blast Furnace Slag | Sodium Oxide (Na <sub>2</sub> O)          | TPM/MSK/60/H (Issue No-02, dated 01.10.2022)  |



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| Chemical Testing |                                                          |                                     |                                              |
|------------------|----------------------------------------------------------|-------------------------------------|----------------------------------------------|
| Sl. No.          | Product(s)/Material of Test                              | Specific Tests Performed            | Test Method                                  |
|                  | <b>Building Materials</b>                                |                                     |                                              |
| 60.              | Blast Furnace Slag/ Ground Granulated Blast Furnace Slag | Sulphur Trioxide (SO <sub>3</sub> ) | TPM/MSK/60/G (Issue No-01, dated 01.04.2020) |





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| Chemical Testing |                               |                             |                                                                                                     |
|------------------|-------------------------------|-----------------------------|-----------------------------------------------------------------------------------------------------|
| Sl. No.          | Product(s)/Material of Test   | Specific Tests Performed    | Test Method                                                                                         |
|                  | <b>Fertilizers</b>            |                             |                                                                                                     |
| 1.               | Ammonium Chloride             | Ammoniacal Nitrogen         | The Fertilizer (Control) Order 1985 (as amended upto July 2021), Schedule II, Part B, Method-3(vii) |
| 2.               | Ammonium Chloride             | Moisture                    | The Fertilizer (Control) Order 1985 (as amended upto July 2021), Schedule II, Part B, Method-2(ii)  |
| 3.               | Liquid Urea (Nano Fertilizer) | Total Nitrogen              | The Fertilizer (Control) Order 1985 (as amended upto July 2021), Schedule II, Part B, Method-3, iv  |
| 4.               | Liquid Urea (Nano Fertilizer) | pH                          | The Fertilizer (Control) Order 1985 (as amended upto July 2021), Schedule VII                       |
| 5.               | Urea /Neem Coated Urea        | Biuret                      | IS 6092(Part 6):1985, RA 2017 (Method 5.1.2)                                                        |
| 6.               | Urea /Neem Coated Urea        | Biuret                      | TPM/MSK/27/C1 (ICP-OES) (Issue No.04 dated 01.12.2022)                                              |
| 7.               | Urea /Neem Coated Urea        | Particle Size (- 2.8mm+1mm) | The Fertilizer (Control) Order 1985 (as amended upto July 2021), Schedule II, Part B, Method-20     |
| 8.               | Urea/ Neem Coated Urea        | Biuret                      | The Fertilizer (Control) Order 1985 (as amended upto July 2021), Schedule II, Part B, Method-3(xii) |
| 9.               | Urea/ Neem Coated Urea        | Moisture                    | The Fertilizer (Control) Order 1985 (as amended upto July 2021), Schedule II, Part B, Method-2(i),c |
| 10.              | Urea/ Neem Coated Urea        | Total Nitrogen              | The Fertilizer (Control) Order 1985 (as amended upto July 2021),                                    |

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| Chemical Testing |                             |                                                                  |                                                                                                          |
|------------------|-----------------------------|------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|
| Sl. No.          | Product(s)/Material of Test | Specific Tests Performed                                         | Test Method                                                                                              |
|                  | <b>Fertilizers</b>          |                                                                  |                                                                                                          |
|                  |                             |                                                                  | Schedule II, Part B, Method-3(iv): 2021                                                                  |
| 11.              | Urea/ Neem Coated Urea      | Total Nitrogen                                                   | IS 6092 (Part 2/ Sec 5): 2004, RA 2017                                                                   |
| 12.              | Urea/Neem Coated Urea       | Neem Oil Content (Soluble in Benzene)                            | The Fertilizer (Control) Order 1985 (as amended upto July 2021), Schedule II, Part B, Method- 3(xvii)    |
| 13.              | Phosphoric Acid             | Alumina ( $Al_2O_3$ )                                            | IS 798:2020                                                                                              |
| 14.              | Phosphoric Acid             | Ferric Oxide ( $Fe_2O_3$ )                                       | IS 798:2020                                                                                              |
| 15.              | Phosphoric Acid             | Total Phosphorus (as $P_2O_5$ )                                  | ISO 3706:1976, RC 2018                                                                                   |
| 16.              | Phosphoric Acid             | Total Suspended Solid                                            | TPM/MSK/QC/02 (Issue No.01 dated 01.02.2023)                                                             |
| 17.              | Ammonium Phosphate          | Ammoniacal Nitrogen                                              | The Fertilizer (Control) Order 1985 (as amended upto July 2021), Schedule II, Part B, Method-3(vii)      |
| 18.              | Ammonium Phosphate          | Citrate Soluble Phosphorus (Available phosphorus) (as $P_2O_5$ ) | The Fertilizer (Control) Order 1985 (as amended upto July 2021), Schedule II, Part B, Method-4 (ii,iv,v) |
| 19.              | Ammonium Phosphate          | Moisture                                                         | The Fertilizer (Control) Order 1985 (as amended upto July 2021), Schedule II, Part B, Method-2(ii)       |
| 20.              | Ammonium Phosphate          | Particle Size (- 4mm+1mm)                                        | The Fertilizer (Control) Order 1985 (as amended upto July 2021), Schedule II, Part B, Method-20          |



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|------------------|-----------------------------|------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
| Sl. No.          | Product(s)/Material of Test | Specific Tests Performed                                         | Test Method                                                                                             |
|                  | <b>Fertilizers</b>          |                                                                  |                                                                                                         |
| 21.              | Ammonium Phosphate          | Total Nitrogen                                                   | The Fertilizer (Control) Order 1985 (as amended upto July 2021), Schedule II, Part B, Method-3(iv)      |
| 22.              | Ammonium Phosphate          | Water Soluble phosphorus (as $P_2O_5$ )                          | The Fertilizer (Control) Order 1985 (as amended upto July 2021), Schedule II, Part B, Method-4(iii)     |
| 23.              | Ammonium Phosphate Sulphate | Ammoniacal Nitrogen                                              | The Fertilizer (Control) Order 1985 (as amended upto July 2021), Schedule II, Part B, Method-3(vii)     |
| 24.              | Ammonium Phosphate Sulphate | Citrate Soluble Phosphorus (Available phosphorus) (as $P_2O_5$ ) | The Fertilizer (Control) Order 1985 (as amended upto July 2021), Schedule II, Part B, Method-4(ii,iv,v) |
| 25.              | Ammonium Phosphate Sulphate | Moisture                                                         | The Fertilizer (Control) Order 1985 (as amended upto July 2021), Schedule II, Part B, Method-2(ii)      |
| 26.              | Ammonium Phosphate Sulphate | Particle Size (- 4mm+1mm)                                        | The Fertilizer (Control) Order 1985 (as amended upto July 2021), Schedule II, Part B, Method-20         |
| 27.              | Ammonium Phosphate Sulphate | Sulphate Sulphur (as S)                                          | The Fertilizer (Control) Order 1985 (as amended upto July 2021), Schedule II, Part B, Method-24(A)      |
| 28.              | Ammonium Phosphate Sulphate | Total Nitrogen                                                   | The Fertilizer (Control) Order 1985 (as amended upto July 2021), Schedule II, Part B, Method-3(iv)      |





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|------------------|-----------------------------|------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|
| Sl. No.          | Product(s)/Material of Test | Specific Tests Performed                                         | Test Method                                                                                              |
|                  | <b>Fertilizers</b>          |                                                                  |                                                                                                          |
| 29.              | Ammonium Phosphate Sulphate | Water Soluble phosphorus (as $P_2O_5$ )                          | The Fertilizer (Control) Order 1985 (as amended upto July 2021), Schedule II, Part B, Method-4(iii)      |
| 30.              | Diammonium Phosphate        | Ammoniacal Nitrogen                                              | The Fertilizer (Control) Order 1985 (as amended upto July 2021), Schedule II, Part B, Method-3(vii)      |
| 31.              | Diammonium Phosphate        | Ammoniacal Nitrogen                                              | IS 6092 (Part 2) :1985, RA 2021                                                                          |
| 32.              | Diammonium Phosphate        | Citrate Soluble Phosphorus (Available phosphorus) (as $P_2O_5$ ) | The Fertilizer (Control) Order 1985 (as amended upto July 2021), Schedule II, Part B, Method-4 (ii,iv,v) |
| 33.              | Diammonium Phosphate        | Moisture                                                         | The Fertilizer (Control) Order 1985 (as amended upto July 2021), Schedule II, Part B, Method-2(ii)       |
| 34.              | Diammonium Phosphate        | Moisture                                                         | IS 6092 (Part 6): 1985, RA 2017 (4.2 Method 2)                                                           |
| 35.              | Diammonium phosphate        | Neutral Ammonium Citrate Soluble Phosphorus (as $P_2O_5$ )       | IS 6092 (Part 3): 1985, RA 2021                                                                          |
| 36.              | Diammonium Phosphate        | Particle Size (- 4mm+1mm)                                        | The Fertilizer (Control) Order 1985 (as amended upto July 2021), Schedule II, Part B, Method-20          |
| 37.              | Diammonium Phosphate        | Total Nitrogen                                                   | The Fertilizer (Control) Order 1985 (as amended upto July 2021), Schedule II, Part B, Method-3(iv)       |
| 38.              | Diammonium Phosphate        | Total Nitrogen                                                   | IS 6092 (Part 2) : Sec 5 : 2004 , RA 2017                                                                |



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|------------------|-----------------------------|------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|
| Sl. No.          | Product(s)/Material of Test | Specific Tests Performed                                         | Test Method                                                                                              |
|                  | <b>Fertilizers</b>          |                                                                  |                                                                                                          |
| 39.              | Diammonium Phosphate        | Total Phosphate (as $P_2O_5$ )                                   | IS 6092 (Part 3): 1985, RA 2021 (Method:6.1 )                                                            |
| 40.              | Diammonium Phosphate        | Water Soluble phosphorus (as $P_2O_5$ )                          | The Fertilizer (Control) Order 1985 (as amended upto July 2021), Schedule II, Part B, Method-4(iii)      |
| 41.              | Diammonium Phosphate        | Water Soluble phosphorus (as $P_2O_5$ )                          | IS 6092 (Part 3): 1985, RA 2021 (Method 7.3.1)                                                           |
| 42.              | Mono Ammonium Phosphate     | Citrate Soluble Phosphorus (Available phosphorus) (as $P_2O_5$ ) | The Fertilizer (Control) Order 1985 (as amended upto July 2021), Schedule II, Part B, Method-4 (ii,iv,v) |
| 43.              | Mono Ammonium Phosphate     | Moisture                                                         | The Fertilizer (Control) Order 1985 (as amended upto July 2021), Schedule II, Part B, Method-2(ii)       |
| 44.              | Mono Ammonium Phosphate     | Particle Size (- 4mm+1mm)                                        | The Fertilizer (Control) Order 1985 (as amended upto July 2021), Schedule II, Part B, Method-20          |
| 45.              | Mono Ammonium Phosphate     | Total Nitrogen                                                   | The Fertilizer (Control) Order 1985 (as amended upto July 2021),Schedule II, Part B, Method-3(iv)        |
| 46.              | Mono Ammonium Phosphate     | Water Soluble phosphorus (as $P_2O_5$ )                          | The Fertilizer (Control) Order 1985 (as amended upto July 2021), Schedule II, Part B, Method-4(iii)      |
| 47.              | N.P.K                       | Ammoniacal Nitrogen                                              | The Fertilizer (Control) Order 1985 (as amended upto July 2021), Schedule II, Part B, Method-3(vii)      |

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| Chemical Testing |                             |                                                                  |                                                                                                         |
|------------------|-----------------------------|------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
| Sl. No.          | Product(s)/Material of Test | Specific Tests Performed                                         | Test Method                                                                                             |
|                  | <b>Fertilizers</b>          |                                                                  |                                                                                                         |
| 48.              | N.P.K                       | Citrate Soluble Phosphorus (Available phosphorus) (as $P_2O_5$ ) | The Fertilizer (Control) Order 1985 (as amended upto July 2021), Schedule II, Part B, Method-4(ii,iv,v) |
| 49.              | N.P.K                       | Moisture                                                         | The Fertilizer (Control) Order 1985 (as amended upto July 2021), Schedule II, Part B, Method-2(ii)      |
| 50.              | N.P.K                       | Particle Size (- 4mm+1mm)                                        | The Fertilizer (Control) Order 1985 (as amended upto July 2021), Schedule II, Part B, Method-20         |
| 51.              | N.P.K                       | Total Nitrogen                                                   | The Fertilizer (Control) Order 1985 (as amended upto July 2021), Schedule II, Part B, Method-3(iv)      |
| 52.              | N.P.K                       | Water Soluble phosphorus (as $P_2O_5$ )                          | The Fertilizer (Control) Order 1985 (as amended upto July 2021), Schedule II, Part B, Method-4(iii)     |
| 53.              | N.P.K                       | Water Soluble Potassium (as $K_2O$ )                             | ISO 17319: 2015, RC 2020                                                                                |
| 54.              | N.P.K                       | Water Soluble Potassium (as $K_2O$ )                             | The Fertilizer (Control) Order 1985 (as amended upto July 2021), Schedule II, Part B, Method-5(ii)      |
| 55.              | N.P.K(S)                    | Ammoniacal Nitrogen                                              | The Fertilizer (Control) Order 1985 (as amended upto July 2021), Schedule II, Part B, Method-3(vii)     |
| 56.              | N.P.K(S)                    | Citrate Soluble Phosphorus(Available phosphorus) (as $P_2O_5$ )  | The Fertilizer (Control) Order 1985 (as amended upto July 2021), Schedule II, Part B, Method-4(iii)     |

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# Quality And Accreditation Institute

## Centre for Laboratory Accreditation



### Scope of Accreditation

**Mitra S. K. Private Limited**

Holding No. E-5-138/157, Ward No. 23, Gangarampur Road, Phase-2 R. H. S to Behala,  
Banerjee para, P.O-Raipur, P.S- Maheshtala, 24 Paraganas South,  
Kolkata-700141, West Bengal, India

**QAI/CLA/TL/2023/0015**

Valid from: 13 July 2023

Valid until: 12 July 2025

**Accreditation Standard: ISO/IEC 17025:2017**

| Chemical Testing |                             |                                                                                       |                                                                                                         |
|------------------|-----------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
| Sl. No.          | Product(s)/Material of Test | Specific Tests Performed                                                              | Test Method                                                                                             |
|                  | Fertilizers                 |                                                                                       |                                                                                                         |
|                  |                             |                                                                                       | 2021), Schedule II, Part B, Method-4(ii,iv,v)                                                           |
| 57.              | N.P.K(S)                    | Moisture                                                                              | The Fertilizer (Control) Order 1985 (as amended upto July 2021), Schedule II, Part B, Method-2(ii)      |
| 58.              | N.P.K(S)                    | Particle Size (- 4mm+1mm)                                                             | The Fertilizer (Control) Order 1985 (as amended upto July 2021), Schedule II, Part B, Method-20         |
| 59.              | N.P.K(S)                    | Sulphate Sulphur (as S)                                                               | The Fertilizer (Control) Order 1985 (as amended upto July 2021), Schedule II, Part B, Method-24(A)      |
| 60.              | N.P.K(S)                    | Total Nitrogen                                                                        | The Fertilizer (Control) Order 1985 (as amended upto July 2021), Schedule II, Part B, Method-3(iv)      |
| 61.              | N.P.K(S)                    | Water Soluble phosphorus (as P <sub>2</sub> O <sub>5</sub> )                          | The Fertilizer (Control) Order 1985 (as amended upto July 2021), Schedule II, Part B, Method-4(iii)     |
| 62.              | N.P.K(S)                    | Water Soluble Potassium (as K <sub>2</sub> O)                                         | The Fertilizer (Control) Order 1985 (as amended upto July 2021), Schedule II, Part B, Method-5(ii)      |
| 63.              | N.P.K(S)                    | Water Soluble Potassium (as K <sub>2</sub> O)                                         | ISO 17319: 2015, RC 2020                                                                                |
| 64.              | Single super Phosphate      | Citrate Soluble Phosphorus (Available phosphorus) (as P <sub>2</sub> O <sub>5</sub> ) | The Fertilizer (Control) Order 1985 (as amended upto July 2021), Schedule II, Part B, Method-4(ii,iv,v) |



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| Chemical Testing |                                        |                                                              |                                                                                                     |
|------------------|----------------------------------------|--------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| Sl. No.          | Product(s)/Material of Test            | Specific Tests Performed                                     | Test Method                                                                                         |
|                  | <b>Fertilizers</b>                     |                                                              |                                                                                                     |
| 65.              | Single super Phosphate                 | Free phosphoric Acid                                         | The Fertilizer (Control) Order 1985 (as amended upto July 2021), Schedule II, Part B, Method-4(vii) |
| 66.              | Single super Phosphate                 | Moisture                                                     | The Fertilizer (Control) Order 1985 (as amended upto July 2021), Schedule II, Part B, Method-2(i),b |
| 67.              | Single super Phosphate                 | Sulphate Sulphur (as S)                                      | The Fertilizer (Control) Order 1985 (as amended upto July 2021), Schedule II, Part B, Method-24(A)  |
| 68.              | Single super Phosphate                 | Water Soluble phosphorus (as P <sub>2</sub> O <sub>5</sub> ) | The Fertilizer (Control) Order 1985 (as amended upto July 2021), Schedule II, Part B, Method-4(iii) |
| 69.              | Potassium Chloride (Muriate of Potash) | Moisture                                                     | The Fertilizer (Control) Order 1985 (as amended upto July 2021), Schedule II, Part B, Method-2)     |
| 70.              | Potassium Chloride (Muriate of Potash) | Particle Size (-1.7 mm+0.25 mm)                              | The Fertilizer (Control) Order 1985 (as amended upto July 2021), Schedule II, Part B, Method-20     |
| 71.              | Potassium Chloride (Muriate of Potash) | Sodium (as NaCl)                                             | TPM/MSK/29/D(issue No.01 dated 01.01.2022)e No                                                      |
| 72.              | Potassium Chloride (Muriate of Potash) | Water Soluble Potassium (as K <sub>2</sub> O)                | The Fertilizer (Control) Order 1985 (as amended upto July 2021), Schedule II, Part B, Method-5(ii)  |
| 73.              | Potassium Chloride (Muriate of Potash) | Water Soluble Potassium (as K <sub>2</sub> O)                | ISO 17319: 2015, RC 2020                                                                            |





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| Chemical Testing |                             |                          |                                                        |
|------------------|-----------------------------|--------------------------|--------------------------------------------------------|
| Sl. No.          | Product(s)/Material of Test | Specific Tests Performed | Test Method                                            |
|                  | <b>Metals &amp; Alloys</b>  |                          |                                                        |
| 1.               | Cobalt                      | Beryllium (Be)           | TPM/MSK/42 (ICP-OES) (Issue No.04 dated 01.12.2022)    |
| 2.               | Bronze                      | Copper (Cu)              | IS4027 (Part 1):1987, RA 2018                          |
| 3.               | Bronze                      | Lead (Pb)                | IS4027 (Part 1):1987, RA 2018                          |
| 4.               | Bronze                      | Tin (Sn)                 | TPM/MSK/33/C1 (ICP-OES) (Issue No.02 dated 01.12.2022) |
| 5.               | Bronze                      | Zinc (Zn)                | IS 4027 (Part 6):1987, RA 2018                         |
| 6.               | Cobalt                      | Aluminum (Al)            | TPM/MSK/42 (ICP-OES) (Issue No.04 dated 01.12.2022)    |
| 7.               | Cobalt                      | Antimony (Sb)            | TPM/MSK/42 (ICP-OES) (Issue No.04 dated 01.12.2022)    |
| 8.               | Cobalt                      | Arsenic (As)             | TPM/MSK/42 (ICP-OES) (Issue No.04 dated 01.12.2022)    |
| 9.               | Cobalt                      | Barium (Ba)              | TPM/MSK/42 (ICP-OES) (Issue No.04 dated 01.12.2022)    |
| 10.              | Cobalt                      | Bismuth (Bi)             | TPM/MSK/42 (ICP-OES) (Issue No.04 dated 01.12.2022)    |
| 11.              | Cobalt                      | Cadmium (Cd)             | TPM/MSK/42 (ICP-OES) (Issue No.04 dated 01.12.2022)    |
| 12.              | Cobalt                      | Chromium (Cr)            | TPM/MSK/42 (ICP-OES) (Issue No.04 dated 01.12.2022)    |
| 13.              | Cobalt                      | Copper (Cu)              | TPM/MSK/42 (ICP-OES) (Issue No.04 dated 01.12.2022)    |
| 14.              | Cobalt                      | Gallium (Ga)             | TPM/MSK/42 (ICP-OES) (Issue No.04 dated 01.12.2022)    |
| 15.              | Cobalt                      | Germanium (Ge)           | TPM/MSK/42 (ICP-OES) (Issue No.04 dated 01.12.2022)    |

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# Quality And Accreditation Institute

## Centre for Laboratory Accreditation



### Scope of Accreditation

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| Chemical Testing |                             |                          |                                                     |
|------------------|-----------------------------|--------------------------|-----------------------------------------------------|
| Sl. No.          | Product(s)/Material of Test | Specific Tests Performed | Test Method                                         |
|                  | <b>Metals &amp; Alloys</b>  |                          |                                                     |
| 16.              | Cobalt                      | Gold (Au)                | TPM/MSK/42 (ICP-OES) (Issue No.04 dated 01.12.2022) |
| 17.              | Cobalt                      | Iron (Fe)                | TPM/MSK/42 (ICP-OES) (Issue No.04 dated 01.12.2022) |
| 18.              | Cobalt                      | Lead (Pb)                | TPM/MSK/42 (ICP-OES) (Issue No.04 dated 01.12.2022) |
| 19.              | Cobalt                      | Manganese (Mn)           | TPM/MSK/42 (ICP-OES) (Issue No.04 dated 01.12.2022) |
| 20.              | Cobalt                      | Molybdenum (Mo)          | TPM/MSK/42 (ICP-OES) (Issue No.04 dated 01.12.2022) |
| 21.              | Cobalt                      | Nickel (Ni)              | TPM/MSK/42 (ICP-OES) (Issue No.04 dated 01.12.2022) |
| 22.              | Cobalt                      | Platinum (Pt)            | TPM/MSK/42 (ICP-OES) (Issue No.04 dated 01.12.2022) |
| 23.              | Cobalt                      | Selenium (Se)            | TPM/MSK/42 (ICP-OES) (Issue No.04 dated 01.12.2022) |
| 24.              | Cobalt                      | Silver (Ag)              | TPM/MSK/42 (ICP-OES) (Issue No.04 dated 01.12.2022) |
| 25.              | Cobalt                      | Tin (Sn)                 | TPM/MSK/42 (ICP-OES) (Issue No.04 dated 01.12.2022) |
| 26.              | Cobalt                      | Titanium (Ti)            | TPM/MSK/42 (ICP-OES) (Issue No.04 dated 01.12.2022) |
| 27.              | Cobalt                      | Vanadium (V)             | TPM/MSK/42 (ICP-OES) (Issue No.04 dated 01.12.2022) |
| 28.              | Cobalt                      | Zinc (Zn)                | TPM/MSK/42 (ICP-OES) (Issue No.04 dated 01.12.2022) |

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# Quality And Accreditation Institute

## Centre for Laboratory Accreditation



### Scope of Accreditation

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| Chemical Testing |                             |                          |                                                            |
|------------------|-----------------------------|--------------------------|------------------------------------------------------------|
| Sl. No.          | Product(s)/Material of Test | Specific Tests Performed | Test Method                                                |
|                  | <b>Metals &amp; Alloys</b>  |                          |                                                            |
| 29.              | Copper                      | Silicon (Si)             | TPM/MSK/41(ICP-OES) (Issue No.04 dated 01.12.2022)         |
| 30.              | Copper base alloy (Brass)   | Copper (Cu)              | IS 3685 :1966, RA2018                                      |
| 31.              | Copper base alloy (Brass)   | Lead (Pb)                | SOP:TPM/MSK/32/A1 (ICP-OES) (Issue No.03 dated 01.12.2022) |
| 32.              | Copper base alloy (Brass)   | Lead (Pb)                | IS 3685 :1966, RA 2018                                     |
| 33.              | Copper base alloy (Brass)   | Tin (Sn)                 | TPM/MSK/32/C1 (ICP-OES) (Issue No.03 dated 01.12.2022)     |
| 34.              | Copper base alloy (Brass)   | Zinc (Zn)                | IS 3685 :1966, RA 2018                                     |
| 35.              | Copper/ Blister Copper      | Manganese (Mn)           | TPM/MSK/41(ICP-OES) (Issue No.04 dated 01.12.2022)         |
| 36.              | Copper/ Blister Copper      | Bismuth (Bi)             | TPM/MSK/41(ICP-OES) (Issue No.04 dated 01.12.2022)         |
| 37.              | Copper/ Blister Copper      | Iron (Fe)                | TPM/MSK/41(ICP-OES) (Issue No.04 dated 01.12.2022)         |
| 38.              | Copper/ Blister Copper      | Nickel (Ni)              | TPM/MSK/41(ICP-OES) (Issue No.04 dated 01.12.2022)         |
| 39.              | Copper/ Blister Copper      | Antimony (Sb)            | TPM/MSK/41(ICP-OES) (Issue No.04 dated 01.12.2022)         |
| 40.              | Copper/ Blister Copper      | Arsenic (As)             | TPM/MSK/41(ICP-OES) (Issue No.04 dated 01.12.2022)         |
| 41.              | Copper/ Blister Copper      | Cadmium (Cd)             | TPM/MSK/41(ICP-OES) (Issue No.04 dated 01.12.2022)         |
| 42.              | Copper/ Blister Copper      | Chromium (Cr)            | TPM/MSK/41(ICP-OES) (Issue No.04 dated 01.12.2022)         |
| 43.              | Copper/ Blister Copper      | Cobalt (Co)              | TPM/MSK/41(ICP-OES) (Issue No.04 dated 01.12.2022)         |

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# Quality And Accreditation Institute

## Centre for Laboratory Accreditation



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**Accreditation Standard: ISO/IEC 17025:2017**

| Chemical Testing |                             |                          |                                                       |
|------------------|-----------------------------|--------------------------|-------------------------------------------------------|
| Sl. No.          | Product(s)/Material of Test | Specific Tests Performed | Test Method                                           |
|                  | <b>Metals &amp; Alloys</b>  |                          |                                                       |
| 44.              | Copper/ Blister Copper      | Lead (Pb)                | TPM/MSK/41(ICP-OES) (Issue No.04 dated 01.12.2022)    |
| 45.              | Copper/ Blister Copper      | Phosphorus (P)           | TPM/MSK/41(ICP-OES) (Issue No.04 dated 01.12.2022)    |
| 46.              | Copper/ Blister Copper      | Selenium (Se)            | TPM/MSK/41(ICP-OES) (Issue No.04 dated 01.12.2022)    |
| 47.              | Copper/ Blister Copper      | Silver (Ag)              | TPM/MSK/41(ICP-OES) (Issue No.04 dated 01.12.2022)    |
| 48.              | Copper/ Blister Copper      | Sulphur (S)              | TPM/MSK/41(ICP-OES) (Issue No.04 dated 01.12.2022)    |
| 49.              | Copper/ Blister Copper      | Tellurium (Te)           | TPM/MSK/41(ICP-OES) (Issue No.04 dated 01.12.2022)    |
| 50.              | Copper/ Blister Copper      | Tin (Sn)                 | TPM/MSK/41(ICP-OES) (Issue No.04 dated 01.12.2022)    |
| 51.              | Copper/ Blister Copper      | Zinc (Zn)                | TPM/MSK/41(ICP-OES) (Issue No.04 dated 01.12.2022)    |
| 52.              | Ferro Chrome (HCFC)         | Chromium (Cr)            | ASTM E 363-22                                         |
| 53.              | Ferro Chromium              | Cobalt (Co)              | TPM/MSK/8/E2 (ICP-OES) (Issue No.04 dated 01.12.2022) |
| 54.              | Ferro Chromium              | Manganese (Mn)           | TPM/MSK/8/E2 (ICP-OES) (Issue No.04 dated 01.12.2022) |
| 55.              | Ferro Chromium              | Nickel (Ni)              | TPM/MSK/8/E2 (ICP-OES) (Issue No.04 dated 01.12.2022) |
| 56.              | Ferro Chromium              | Phosphorus (P)           | IS 13452 :2019 Sec-13                                 |
| 57.              | Ferro Chromium              | Titanium (Ti)            | TPM/MSK/8/E2 (ICP-OES) (Issue No.04 dated 01.12.2022) |

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# Quality And Accreditation Institute

## Centre for Laboratory Accreditation



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| Chemical Testing |                                      |                          |                                                        |
|------------------|--------------------------------------|--------------------------|--------------------------------------------------------|
| Sl. No.          | Product(s)/Material of Test          | Specific Tests Performed | Test Method                                            |
|                  | <b>Metals &amp; Alloys</b>           |                          |                                                        |
| 58.              | Ferro Chromium                       | Vanadium (V)             | TPM/MSK/8/E2 (ICP-OES) (Issue No.04 dated 01.12.2022)  |
| 59.              | Ferro Chromium (HCFC)                | Carbon (C)               | ASTM E1915-20                                          |
| 60.              | Ferro Chromium (HCFC)                | Carbon (C)               | TPM/MSK/8/D (Issue No.02 dated 02.01.2023)             |
| 61.              | Ferro Chromium (HCFC)                | Chromium (Cr)            | IS 13452 :2019 Sec-12                                  |
| 62.              | Ferro Chromium (HCFC)                | Chromium (Cr)            | ISO 4140 :1979, RC 2022                                |
| 63.              | Ferro Chromium (HCFC)                | Phosphorus (P)           | TPM/MSK/8/C (Issue No.03 dated 01.04.2020)             |
| 64.              | Ferro Chromium (HCFC)                | Phosphorus (P)           | TPM/MSK/8/C/1(ICP-OES) (Issue No.02 dated 01.12.2022): |
| 65.              | Ferro Chromium (HCFC)                | Silicon (Si)             | IS 13452 :2019 Sec-5                                   |
| 66.              | Ferro Chromium (HCFC)                | Sulphur (S)              | ASTM E1915-20                                          |
| 67.              | Ferro Chromium (HCFC)                | Sulphur (S)              | TPM/MSK/8/D (Issue No.02 dated 02.01.2023)             |
| 68.              | Ferro Chromium (HCFC/ Charge Chrome) | Chromium (Cr)            | IS 13452 :2019 Sec-9                                   |
| 69.              | Ferro Chromium (LCFC)                | Carbon (C)               | ASTM E 1019-18                                         |
| 70.              | Ferro Chromium (LCFC)                | Chromium (Cr)            | IS 13452 :2019 Sec- 10                                 |
| 71.              | Ferro Chromium (LCFC)                | Chromium (Cr)            | IS 13452 :2019 Sec-12                                  |
| 72.              | Ferro Chromium (LCFC)                | Chromium (Cr)            | ISO 4140 :1979, RC 2022                                |
| 73.              | Ferro Chromium (LCFC)                | Chromium (Cr)            | ASTM E 363-22                                          |
| 74.              | Ferro Chromium (LCFC)                | Phosphorus (P)           | IS 13452 :2019 Sec-13                                  |
| 75.              | Ferro Chromium (LCFC)                | Phosphorus (P)           | TPM/MSK/8/C (Issue No.03 dated 01.04.2020)             |





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| Chemical Testing |                             |                          |                                                             |
|------------------|-----------------------------|--------------------------|-------------------------------------------------------------|
| Sl. No.          | Product(s)/Material of Test | Specific Tests Performed | Test Method                                                 |
|                  | <b>Metals &amp; Alloys</b>  |                          |                                                             |
| 76.              | Ferro Chromium (LCFC)       | Phosphorus (P)           | TPM/MSK/8/C/1 (ICP-OES) (Issue No.02 dated 01.12.2022.)     |
| 77.              | Ferro Chromium (LCFC)       | Silicon (Si)             | IS 13452 :2019 Sec-6                                        |
| 78.              | Ferro Chromium (LCFC)       | Sulphur (S)              | ASTM E 1019-18                                              |
| 79.              | Ferro Manganese             | Carbon (C)               | ASTM E 1019-18                                              |
| 80.              | Ferro Manganese             | Carbon (C)               | ASTM E1915-20                                               |
| 81.              | Ferro Manganese             | Carbon (C)               | TPM/MSK/9/D (Issue No.02 dated 02.01.2023): 2023            |
| 82.              | Ferro Manganese             | Chromium (Cr)            | TPM/MSK/9/C1 (ICP-OES) (Issue No.04 dated 01.12.2022): 2022 |
| 83.              | Ferro Manganese             | Manganese (Mn)           | IS 1559: 1961, RA 2018                                      |
| 84.              | Ferro Manganese             | Manganese (Mn)           | ISO 4159:1978, RC 2020                                      |
| 85.              | Ferro Manganese             | Nickel (Ni)              | TPM/MSK/9/C1 (ICP-OES) (Issue No.04 dated 01.12.2022)       |
| 86.              | Ferro Manganese             | Phosphorus (P)           | IS 1559 :1961, RA 2018                                      |
| 87.              | Ferro Manganese             | Phosphorus (P)           | IS 13938(Part- 3):1993, RA 2019                             |
| 88.              | Ferro Manganese             | Phosphorus (P)           | TPM/MSK/9/C1 (ICP-OES) (Issue No.04 dated 01.12.2022)       |
| 89.              | Ferro Manganese             | Silicon (Si)             | IS 1559 :1961, RA 2018                                      |
| 90.              | Ferro Manganese             | Silicon (Si)             | IS 13938(Part- 1):1994, RA 2019                             |
| 91.              | Ferro Manganese             | Sulphur (S)              | ASTM E 1019-18                                              |
| 92.              | Ferro Manganese             | Sulphur (S)              | ASTM E1915-20                                               |
| 93.              | Ferro Manganese             | Sulphur (S)              | TPM/MSK/9/D (Issue No.02 dated 02.01.2023)                  |
| 94.              | Ferro Molybdenum            | Carbon (C)               | ASTM E 1019-18                                              |
| 95.              | Ferro Molybdenum            | Molybdenum (Mo)          | IS 12614( Part-1) :1988, RA 2019                            |

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| Chemical Testing |                             |                          |                                                        |
|------------------|-----------------------------|--------------------------|--------------------------------------------------------|
| Sl. No.          | Product(s)/Material of Test | Specific Tests Performed | Test Method                                            |
|                  | <b>Metals &amp; Alloys</b>  |                          |                                                        |
| 96.              | Ferro Molybdenum            | Molybdenum (Mo)          | TPM/MSK/14/A1 (Issue. 03 Dated. 01.04.2022)            |
| 97.              | Ferro Molybdenum            | Phosphorus (P)           | IS 12614 (Part-5) :1988, RA 2019                       |
| 98.              | Ferro Molybdenum            | Silicon (Si)             | IS 12614 (Part-3) :1988 , RA 2019                      |
| 99.              | Ferro Molybdenum            | Sulphur (S)              | ASTM E 1019-18                                         |
| 100.             | Ferro Nickel                | Carbon (C)               | ISO 7524: 2020                                         |
| 101.             | Ferro Nickel                | Chromium (Cr)            | ISO 23156 :2021                                        |
| 102.             | Ferro Nickel                | Cobalt (Co)              | ISO 23156 :2021                                        |
| 103.             | Ferro Nickel                | Copper (Cu)              | ISO 23156 :2021                                        |
| 104.             | Ferro Nickel                | Manganese (Mn)           | ISO 23156 :2021                                        |
| 105.             | Ferro Nickel                | Nickel (Ni)              | ISO 6352: 1985, RC 2018                                |
| 106.             | Ferro Nickel                | Phosphorus (P)           | ISO 23156 :2021                                        |
| 107.             | Ferro Nickel                | Silicon (Si)             | ISO 8343 :1985, RC 2022                                |
| 108.             | Ferro Silico chromium       | Carbon (C)               | ASTM E 1019-18                                         |
| 109.             | Ferro Silico chromium       | Chromium (Cr)            | IS 13452 :2019 Sec-12: 2019                            |
| 110.             | Ferro Silico chromium       | Chromium (Cr)            | ISO 4140 :1979 RC 2022                                 |
| 111.             | Ferro Silico chromium       | Phosphorus (P)           | TPM/MSK/8/C/1 (ICP-OES) (Issue No.02 dated 01.12.2022) |
| 112.             | Ferro Silico chromium       | Phosphorus (P)           | IS 13452 :2019 Sec-13                                  |
| 113.             | Ferro Silico chromium       | Sulphur (S)              | ASTM E 1019-18                                         |
| 114.             | Ferro Silicon               | Aluminum (Al)            | IS 1559 (Part 5) :2003, RA 2019                        |
| 115.             | Ferro Silicon               | Aluminum (Al)            | TPM/MSK/10/B2 (ICP-OES) (Issue No.04 dated 01.12.2022) |
| 116.             | Ferro Silicon               | Calcium (Ca)             | IS 1559 (Part VI):1982, RA 2018                        |



# Quality And Accreditation Institute

## Centre for Laboratory Accreditation



### Scope of Accreditation

**Mitra S. K. Private Limited**

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Kolkata-700141, West Bengal, India

**QAI/CLA/TL/2023/0015**

Valid from: 13 July 2023

Valid until: 12 July 2025

**Accreditation Standard: ISO/IEC 17025:2017**

| Chemical Testing |                             |                          |                                                        |
|------------------|-----------------------------|--------------------------|--------------------------------------------------------|
| Sl. No.          | Product(s)/Material of Test | Specific Tests Performed | Test Method                                            |
|                  | <b>Metals &amp; Alloys</b>  |                          |                                                        |
| 117.             | Ferro Silicon               | Calcium (Ca)             | TPM/MSK/10/B2 (ICP-OES) (Issue No.04 dated 01.12.2022) |
| 118.             | Ferro Silicon               | Carbon (C)               | ASTM E 1019-18                                         |
| 119.             | Ferro Silicon               | Phosphorus (P)           | IS 1559 (Part IV) :1982, RA 2018                       |
| 120.             | Ferro Silicon               | Phosphorus (P)           | TPM/MSK/10/B2 (ICP-OES) (Issue No.04 dated 01.12.2022) |
| 121.             | Ferro Silicon               | Silicon (Si)             | IS 1559 (Part 1) :1988, RA 2019                        |
| 122.             | Ferro Silicon               | Silicon (Si)             | ISO 4158 :1978, RC 2020                                |
| 123.             | Ferro Silicon               | Sulphur (S)              | ASTM E 1019-18                                         |
| 124.             | Ferro Titanium              | Carbon (C)               | ASTM E 1019-18                                         |
| 125.             | Ferro Titanium              | Silicon (Si)             | IS 13840 :2019                                         |
| 126.             | Ferro Titanium              | Sulphur                  | ASTM E 1019-18                                         |
| 127.             | Ferro Titanium              | Titanium (Ti)            | IS 13840 :2019                                         |
| 128.             | Ferro Titanium              | Titanium (Ti)            | IS 1559 :1961, RA 2018                                 |
| 129.             | Ferro Titanium              | Titanium (Ti)            | ISO 7692:1983, RC 2016                                 |
| 130.             | Ferro Titanium              | Titanium (Ti)            | TPM/MSK/12/A1(Issue No.03 dated 01.04.2022)            |
| 131.             | Ferro Vanadium              | Carbon (C)               | ASTM E 1019-18                                         |
| 132.             | Ferro Vanadium              | Phosphorus (P)           | IS 1559 :1961, RA 2018                                 |
| 133.             | Ferro Vanadium              | Silicon (Si)             | IS 1559 : 1961, RA 2018                                |
| 134.             | Ferro Vanadium              | Sulphur (S)              | ASTM E 1019-18                                         |
| 135.             | Ferro Vanadium              | Vanadium (V)             | IS 1559 : 1961, RA 2018                                |
| 136.             | Ferro Vanadium              | Vanadium (V)             | ISO 6467 : 2018                                        |
| 137.             | High Grade Primary Aluminum | Magnesium (Mg)           | TPM/MSK/36 (ICP-OES) (Issue No.04 dated 01.12.2022)    |



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### Scope of Accreditation

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| Chemical Testing |                                       |                          |                                                        |
|------------------|---------------------------------------|--------------------------|--------------------------------------------------------|
| Sl. No.          | Product(s)/Material of Test           | Specific Tests Performed | Test Method                                            |
|                  | <b>Metals &amp; Alloys</b>            |                          |                                                        |
| 138.             | High Grade Primary Aluminum           | Chromium (Cr)            | TPM/MSK/36 (ICP-OES) (Issue No.04 dated 01.12.2022)    |
| 139.             | High Grade Primary Aluminum           | Copper (Cu)              | TPM/MSK/36 (ICP-OES) (Issue No.04 dated 01.12.2022)    |
| 140.             | High Grade Primary Aluminum           | Gallium (Ga)             | TPM/MSK/36 (ICP-OES) (Issue No.04 dated 01.12.2022)    |
| 141.             | High Grade Primary Aluminum           | Iron (Fe)                | :TPM/MSK/36 (ICP-OES) (Issue No.04 dated 01.12.2022)   |
| 142.             | High Grade Primary Aluminum           | Manganese (Mn)           | TPM/MSK/36 (ICP-OES) (Issue No.04 dated 01.12.2022)    |
| 143.             | High Grade Primary Aluminum           | Titanium (Ti)            | TPM/MSK/36 (ICP-OES) (Issue No.04 dated 01.12.2022)    |
| 144.             | High Grade Primary Aluminum           | Vanadium (V)             | TPM/MSK/36 (ICP-OES) (Issue No.04 dated 01.12.2022)    |
| 145.             | High Grade Primary Aluminum           | Zinc (Zn)                | TPM/MSK/36 (ICP-OES) (Issue No.04 dated 01.12.2022)    |
| 146.             | High Grade Primary Aluminum/          | Silicon (Si)             | TPM/MSK/36 (ICP-OES) (Issue No.04 dated 01.12.2022)    |
| 147.             | High Purity Copper/<br>Copper Cathode | Antimony (Sb)            | TPM/MSK/41(ICP-OES) (Issue No.04 dated 01.12.2022)     |
| 148.             | High Purity Copper/<br>Copper Cathode | Phosphorus (P)           | TPM/MSK/41(ICP-OES) (Issue No.04 dated 01.12.2022)     |
| 149.             | High Purity Copper/<br>Copper Cathode | Tin (Sn)                 | TPM/MSK/41(ICP-OES) (Issue No.04 dated 01.12.2022)     |
| 150.             | High Purity Copper/<br>Copper Cathode | Arsenic (As)             | SOP:TPM/MSK/41(ICP-OES) (Issue No.04 dated 01.12.2022) |

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# Quality And Accreditation Institute

## Centre for Laboratory Accreditation



### Scope of Accreditation

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**Accreditation Standard: ISO/IEC 17025:2017**

| Chemical Testing |                                       |                          |                                                                   |
|------------------|---------------------------------------|--------------------------|-------------------------------------------------------------------|
| Sl. No.          | Product(s)/Material of Test           | Specific Tests Performed | Test Method                                                       |
|                  | <b>Metals &amp; Alloys</b>            |                          |                                                                   |
| 151.             | High Purity Copper/<br>Copper Cathode | Bismuth (Bi)             | SOP:TPM/MSK/41(ICP-OES) (Issue No.04 dated 01.12.2022)            |
| 152.             | High Purity Copper/<br>Copper Cathode | Cadmium (Cd)             | SOP:TPM/MSK/41(ICP-OES) (Issue No.04 dated 01.12.2022)            |
| 153.             | High Purity Copper/<br>Copper Cathode | Chromium (Cr)            | TPM/MSK/41(ICP-OES) (Issue No.04 dated 01.12.2022)                |
| 154.             | High Purity Copper/<br>Copper Cathode | Chromium (Cr)            | TPM/MSK/41(ICP-OES) (Issue No.04 dated 01.12.2022) Copper Cathode |
| 155.             | High Purity Copper/<br>Copper Cathode | Cobalt (Co)              | TPM/MSK/41(ICP-OES) (Issue No.04 dated 01.12.2022)                |
| 156.             | High Purity Copper/<br>Copper Cathode | Iron (Fe)                | TPM/MSK/41(ICP-OES) (Issue No.04 dated 01.12.2022)                |
| 157.             | High Purity Copper/<br>Copper Cathode | Manganese (Mn)           | TPM/MSK/41(ICP-OES) (Issue No.04 dated 01.12.2022)                |
| 158.             | High Purity Copper/<br>Copper Cathode | Nickel (Ni)              | TPM/MSK/41(ICP-OES) (Issue No.04 dated 01.12.2022)                |
| 159.             | High Purity Copper/<br>Copper Cathode | Selenium (Se)            | TPM/MSK/41(ICP-OES) (Issue No.04 dated 01.12.2022)                |
| 160.             | High Purity Copper/<br>Copper Cathode | Silicon (Si)             | TPM/MSK/41 (ICP-OES) (Issue No.04 dated 01.12.2022)               |
| 161.             | High Purity Copper/<br>Copper Cathode | Silver (Ag)              | SOP:TPM/MSK/41(ICP-OES) (Issue No.04 dated 01.12.2022)            |
| 162.             | High Purity Copper/<br>Copper Cathode | Sulphur (S)              | TPM/MSK/41(ICP-OES) (Issue No.04 dated 01.12.2022)                |
| 163.             | High Purity Copper/<br>Copper Cathode | Tellurium (Te)           | TPM/MSK/41(ICP-OES) (Issue No.04 dated 01.12.2022)                |

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# Quality And Accreditation Institute

## Centre for Laboratory Accreditation



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**Accreditation Standard: ISO/IEC 17025:2017**

| Chemical Testing |                                       |                          |                                                        |
|------------------|---------------------------------------|--------------------------|--------------------------------------------------------|
| Sl. No.          | Product(s)/Material of Test           | Specific Tests Performed | Test Method                                            |
|                  | <b>Metals &amp; Alloys</b>            |                          |                                                        |
| 164.             | High Purity Copper/<br>Copper Cathode | Zinc (Zn)                | TPM/MSK/41(ICP-OES) (Issue No.04 dated 01.12.2022)     |
| 165.             | Pig iron / Cast iron                  | Phosphorus (P)           | ASTM E351-18(Sec- 160-167)                             |
| 166.             | Pig iron / Cast iron                  | Carbon (C)               | ASTM E 1019-18                                         |
| 167.             | Pig iron / Cast iron                  | Carbon (C)               | ISO 15350:2000, RC 2018                                |
| 168.             | Pig iron / Cast iron                  | Chromium (Cr)            | TPM/MSK/16/B2 (ICP-OES) (Issue No.04 dated 01.12.2022) |
| 169.             | Pig iron / Cast iron                  | Phosphorus (P)           | IS 12308 (Part 5):1991, RA 2018                        |
| 170.             | Pig iron / Cast iron                  | Phosphorus (P)           | TPM/MSK/16/B2 (ICP-OES) (Issue No.04 dated 01.12.2022) |
| 171.             | Pig iron / Cast iron                  | Sulphur (S)              | ASTM E 1019-18                                         |
| 172.             | Pig iron / Cast iron                  | Sulphur (S)              | ISO 15350:2000, RC 2018                                |
| 173.             | Pig iron / Cast iron                  | Chromium (Cr)            | IS 12308(Part 8):1997, RA 2018                         |
| 174.             | Pig iron / Cast iron                  | Chromium (Cr)            | ASTM E351-18(Sec- 218-226)                             |
| 175.             | Pig iron / Cast iron                  | Manganese (Mn)           | ASTM E351-18(Sec- 152-159)                             |
| 176.             | Pig iron / Cast iron                  | Manganese (Mn)           | IS 12308(Part 10):1991, RA 2018                        |
| 177.             | Pig iron / Cast iron                  | Manganese (Mn)           | TPM/MSK/16/B2 (ICP-OES) (Issue No.04 dated 01.12.2022) |
| 178.             | Pig iron / Cast iron                  | Nickel (Ni)              | ASTM E351-18 (Sec 168-175)                             |
| 179.             | Pig iron / Cast iron                  | Nickel (Ni)              | IS 12308 (Part 7):1991, RA 2018                        |
| 180.             | Pig iron / Cast iron                  | Nickel (Ni)              | TPM/MSK/16/B2 (ICP-OES) (Issue No.04 dated 01.12.2022) |
| 181.             | Pig iron / Cast iron                  | Silicon (Si)             | ASTM E 351-18(Sec- 46-52)                              |
| 182.             | Pig iron / Cast iron                  | Silicon (Si)             | IS 12308 (Part 6):1991, RA 2018                        |
| 183.             | Primary Nickel                        | Cobalt (Co)              | TPM/MSK/40 (ICP-OES) (Issue No.04 dated 01.12.2022)    |



# Quality And Accreditation Institute

## Centre for Laboratory Accreditation



### Scope of Accreditation

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**QAI/CLA/TL/2023/0015**

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**Accreditation Standard: ISO/IEC 17025:2017**

| Chemical Testing |                                                    |                          |                                                     |
|------------------|----------------------------------------------------|--------------------------|-----------------------------------------------------|
| Sl. No.          | Product(s)/Material of Test                        | Specific Tests Performed | Test Method                                         |
|                  | <b>Metals &amp; Alloys</b>                         |                          |                                                     |
| 184.             | Primary Nickel                                     | Antimony (Sb)            | TPM/MSK/40 (ICP-OES) (Issue No.04 dated 01.12.2022) |
| 185.             | Primary Nickel                                     | Arsenic (As)             | TPM/MSK/40 (ICP-OES) (Issue No.04 dated 01.12.2022) |
| 186.             | Primary Nickel                                     | Bismuth (Bi)             | TPM/MSK/40 (ICP-OES) (Issue No.04 dated 01.12.2022) |
| 187.             | Primary Nickel                                     | Copper (Cu)              | TPM/MSK/40 (ICP-OES) (Issue No.04 dated 01.12.2022) |
| 188.             | Primary Nickel                                     | Iron (Fe)                | TPM/MSK/40 (ICP-OES) (Issue No.04 dated 01.12.2022) |
| 189.             | Primary Nickel                                     | Lead (Pb)                | TPM/MSK/40 (ICP-OES) (Issue No.04 dated 01.12.2022) |
| 190.             | Primary Nickel                                     | Manganese (Mn)           | TPM/MSK/40 (ICP-OES) (Issue No.04 dated 01.12.2022) |
| 191.             | Primary Nickel                                     | Phosphorus (P)           | TPM/MSK/40 (ICP-OES) (Issue No.04 dated 01.12.2022) |
| 192.             | Primary Nickel                                     | Silicon (Si)             | TPM/MSK/40 (ICP-OES) (Issue No.04 dated 01.12.2022) |
| 193.             | Primary Nickel                                     | Sulphur (S)              | TPM/MSK/40 (ICP-OES) (Issue No.04 dated 01.12.2022) |
| 194.             | Primary Nickel                                     | Tin (Sn)                 | TPM/MSK/40 (ICP-OES) (Issue No.04 dated 01.12.2022) |
| 195.             | Primary Nickel                                     | Zinc (Zn)                | TPM/MSK/40 (ICP-OES) (Issue No.04 dated 01.12.2022) |
| 196.             | Pure Lead/ Lead Ingot/<br>Refined Lead/Lead Alloys | Aluminium (Al)           | TPM/MSK/39(ICP-OES) (Issue No.04 dated 01.12.2022)  |

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# Quality And Accreditation Institute

## Centre for Laboratory Accreditation



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**Accreditation Standard: ISO/IEC 17025:2017**

| Chemical Testing |                                                    |                          |                                                    |
|------------------|----------------------------------------------------|--------------------------|----------------------------------------------------|
| Sl. No.          | Product(s)/Material of Test                        | Specific Tests Performed | Test Method                                        |
|                  | <b>Metals &amp; Alloys</b>                         |                          |                                                    |
| 197.             | Pure Lead/ Lead Ingot/<br>Refined Lead/Lead Alloys | Antimony (Sb)            | TPM/MSK/39(ICP-OES) (Issue No.04 dated 01.12.2022) |
| 198.             | Pure Lead/ Lead Ingot/<br>Refined Lead/Lead Alloys | Arsenic (As)             | TPM/MSK/39(ICP-OES) (Issue No.04 dated 01.12.2022) |
| 199.             | Pure Lead/ Lead Ingot/<br>Refined Lead/Lead Alloys | Bismuth (Bi)             | TPM/MSK/39(ICP-OES) (Issue No.04 dated 01.12.2022) |
| 200.             | Pure Lead/ Lead Ingot/<br>Refined Lead/Lead Alloys | Cadmium (Cd)             | TPM/MSK/39(ICP-OES) (Issue No.04 dated 01.12.2022) |
| 201.             | Pure Lead/ Lead Ingot/<br>Refined Lead/Lead Alloys | Calcium(Ca)              | TPM/MSK/39(ICP-OES) (Issue No.04 dated 01.12.2022) |
| 202.             | Pure Lead/ Lead Ingot/<br>Refined Lead/Lead Alloys | Chromium (Cr)            | TPM/MSK/39(ICP-OES) (Issue No.04 dated 01.12.2022) |
| 203.             | Pure Lead/ Lead Ingot/<br>Refined Lead/Lead Alloys | Copper (Cu)              | TPM/MSK/39(ICP-OES) (Issue No.04 dated 01.12.2022) |
| 204.             | Pure Lead/ Lead Ingot/<br>Refined Lead/Lead Alloys | Iron (Fe)                | TPM/MSK/39(ICP-OES) (Issue No.04 dated 01.12.2022) |
| 205.             | Pure Lead/ Lead Ingot/<br>Refined Lead/Lead Alloys | Manganese (Mn)           | TPM/MSK/39(ICP-OES) (Issue No.04 dated 01.12.2022) |
| 206.             | Pure Lead /Lead Ingot/<br>Refined Lead/Lead Alloys | Nickel (Ni)              | TPM/MSK/39(ICP-OES) (Issue No.04 dated 01.12.2022) |
| 207.             | Pure Lead/ Lead Ingot/<br>Refined Lead/Lead Alloys | Selenium (Se)            | TPM/MSK/39(ICP-OES) (Issue No.04 dated 01.12.2022) |
| 208.             | Pure Lead/ Lead Ingot/<br>Refined Lead/Lead Alloys | Silver (Ag)              | TPM/MSK/39(ICP-OES) (Issue No.04 dated 01.12.2022) |
| 209.             | Pure Lead/ Lead Ingot/<br>Refined Lead/Lead Alloys | Sulphur (S)              | TPM/MSK/39(ICP-OES) (Issue No.04 dated 01.12.2022) |



# Quality And Accreditation Institute

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| Chemical Testing |                                                    |                          |                                                        |
|------------------|----------------------------------------------------|--------------------------|--------------------------------------------------------|
| Sl. No.          | Product(s)/Material of Test                        | Specific Tests Performed | Test Method                                            |
|                  | <b>Metals &amp; Alloys</b>                         |                          |                                                        |
| 210.             | Pure Lead/ Lead Ingot/<br>Refined Lead/Lead Alloys | Tellurium (Te)           | TPM/MSK/39(ICP-OES) (Issue No.04 dated 01.12.2022)     |
| 211.             | Pure Lead/ Lead Ingot/<br>Refined Lead/Lead Alloys | Tin (Sn)                 | TPM/MSK/39(ICP-OES) (Issue No.04 dated 01.12.2022)     |
| 212.             | Pure Lead/ Lead Ingot/<br>Refined Lead/Lead Alloys | Zinc (Zn)                | TPM/MSK/39(ICP-OES) (Issue No.04 dated 01.12.2022)     |
| 213.             | Silico Manganese                                   | Boron (B)                | TPM/MSK/11/E (ICP-OES) (Issue No.04 dated 01.12.2022)  |
| 214.             | Silico Manganese                                   | Carbon (C)               | ASTM E1019-18                                          |
| 215.             | Silico Manganese                                   | Manganese (Mn)           | IS 1559: 1961, RA 2018                                 |
| 216.             | Silico Manganese                                   | Manganese (Mn)           | ISO 4159:1978, RC 2020                                 |
| 217.             | Silico Manganese                                   | Phosphorus (P)           | IS 1559 :1961, RA 2018                                 |
| 218.             | Silico Manganese                                   | Phosphorus (P)           | TPM/MSK/11/C1 (ICP-OES) (Issue No.04 dated 01.12.2022) |
| 219.             | Silico Manganese                                   | Silicon (Si)             | IS 1559 : 1961, RA 2018                                |
| 220.             | Silico Manganese                                   | Silicon (Si)             | ISO 4158:1978, RC 2020                                 |
| 221.             | Silico Manganese                                   | Sulphur (S)              | ASTM E1019-18                                          |
| 222.             | Special High Grade Zinc                            | Aluminum (Al)            | TPM/MSK/38(ICP-OES) (Issue No.04 dated 01.12.2022)     |
| 223.             | Special High Grade Zinc                            | Antimony (Sb)            | TPM/MSK/38(ICP-OES) (Issue No.04 dated 01.12.2022)     |
| 224.             | Special High Grade Zinc                            | Arsenic (As)             | TPM/MSK/38(ICP-OES) (Issue No.04 dated 01.12.2022)     |
| 225.             | Special High Grade Zinc                            | Cadmium (Cd)             | TPM/MSK/38(ICP-OES) (Issue No.04 dated 01.12.2022)     |
| 226.             | Special High Grade Zinc                            | Copper (Cu)              | TPM/MSK/38(ICP-OES) (Issue No.04 dated 01.12.2022)     |

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# Quality And Accreditation Institute

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| Chemical Testing |                             |                          |                                                        |
|------------------|-----------------------------|--------------------------|--------------------------------------------------------|
| Sl. No.          | Product(s)/Material of Test | Specific Tests Performed | Test Method                                            |
|                  | <b>Metals &amp; Alloys</b>  |                          |                                                        |
| 227.             | Special High Grade Zinc     | Iron (Fe)                | TPM/MSK/38(ICP-OES) (Issue No.04 dated 01.12.2022)     |
| 228.             | Special High Grade Zinc     | Lead (Pb)                | TPM/MSK/38(ICP-OES) (Issue No.04 dated 01.12.2022)     |
| 229.             | Special High Grade Zinc     | Magnesium (Mg)           | TPM/MSK/38(ICP-OES) (Issue No.04 dated 01.12.2022)     |
| 230.             | Special High Grade Zinc     | Nickel (Ni)              | TPM/MSK/38(ICP- OES) (Issue No.04 dated 01.12.2022)    |
| 231.             | Special High Grade Zinc     | Silver (Ag)              | TPM/MSK/38(ICP- OES) (Issue No.04 dated 01.12.2022)    |
| 232.             | Special High Grade Zinc     | Thallium (TI)            | TPM/MSK/38(ICP- OES) (Issue No.04 dated 01.12.2022)    |
| 233.             | Special High Grade Zinc     | Tin (Sn)                 | TPM/MSK/38(ICP- OES) (Issue No.04 dated 01.12.2022)    |
| 234.             | Steel                       | Carbon (C)               | ASTM E1019-18                                          |
| 235.             | Steel                       | Carbon (C)               | ISO 15350:2000, RC 2018                                |
| 236.             | Steel                       | Carbon (C)               | ISO 9556:1989, RC 2022                                 |
| 237.             | Steel                       | Chromium (Cr)            | IS 228 (Part 6):1987, RA 2018                          |
| 238.             | Steel                       | Chromium (Cr)            | ASTM E353-19(Sec 212-220)                              |
| 239.             | Steel                       | Chromium (Cr)            | ASTM E350-18(Sec 230-238)                              |
| 240.             | Steel                       | Chromium (Cr)            | TPM/MSK/17/C2 (ICP-OES) (Issue No.04 dated 01.12.2022) |
| 241.             | Steel                       | Copper (Cu)              | TPM/MSK/17/C2 (ICP-OES) (Issue No.04 dated 01.12.2022) |
| 242.             | Steel                       | Manganese (Mn)           | IS 228 (Part 2):1987, RA 2018                          |
| 243.             | Steel                       | Manganese (Mn)           | ASTM E350-18(Sec 164-171)                              |

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# Quality And Accreditation Institute

## Centre for Laboratory Accreditation



### Scope of Accreditation

**Mitra S. K. Private Limited**

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Kolkata-700141, West Bengal, India

**QAI/CLA/TL/2023/0015**

Valid from: 13 July 2023

Valid until: 12 July 2025

**Accreditation Standard: ISO/IEC 17025:2017**

| Chemical Testing |                             |                          |                                                        |
|------------------|-----------------------------|--------------------------|--------------------------------------------------------|
| Sl. No.          | Product(s)/Material of Test | Specific Tests Performed | Test Method                                            |
|                  | <b>Metals &amp; Alloys</b>  |                          |                                                        |
| 244.             | Steel                       | Manganese (Mn)           | TPM/MSK/17/C2 (ICP-OES) (Issue No.4 dated 01.12.2022)  |
| 245.             | Steel                       | Nickel (Ni)              | IS 228 (Part 5):1987, RA 2019                          |
| 246.             | Steel                       | Nickel (Ni)              | ASTM E353-19(Sec 172-179)                              |
| 247.             | Steel                       | Nickel (Ni)              | ASTM E350-18(Sec 180-187)                              |
| 248.             | Steel                       | Nickel (Ni)              | TPM/MSK/17/C2(ICP-OES) (Issue No.04 dated 01.12.2022)  |
| 249.             | Steel                       | Phosphorus (P)           | IS 228 (Part 3):1987, RA 2018                          |
| 250.             | Steel                       | Phosphorus (P)           | ASTM E350-18(Sec 172-179)                              |
| 251.             | Steel                       | Phosphorus (P)           | TPM/MSK/17/C2 (ICP-OES) (Issue No.04 dated 01.12.2022) |
| 252.             | Steel                       | Silicon (Si)             | IS 228 (Part 8):1989, RA 2019                          |
| 253.             | Steel                       | Silicon (Si)             | ASTM E350-18(Sec 46-52)                                |
| 254.             | Steel                       | Sulphur (S)              | ASTM E1019-18                                          |
| 255.             | Steel                       | Sulphur (S)              | ISO 15350:2000, RC 2018                                |
| 256.             | Steel                       | Sulphur (S)              | ISO 4935:1989, RC 2022                                 |
| 257.             | Tin                         | Aluminium (Al)           | TPM/MSK/37 (ICP-OES) (Issue No.04 dated 01.12.2022)    |
| 258.             | Tin                         | Antimony (Sb)            | TPM/MSK/37 (ICP-OES) (Issue No.04 dated 01.12.2022)    |
| 259.             | Tin                         | Arsenic (As)             | TPM/MSK/37 (ICP-OES) (Issue No.04 dated 01.12.2022)    |
| 260.             | Tin                         | Bismuth (Bi)             | TPM/MSK/37 (ICP-OES) (Issue No.04 dated 01.12.2022)    |

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Accreditation Standard: ISO/IEC 17025:2017

| Chemical Testing |                             |                          |                                                     |
|------------------|-----------------------------|--------------------------|-----------------------------------------------------|
| Sl. No.          | Product(s)/Material of Test | Specific Tests Performed | Test Method                                         |
|                  | <b>Metals &amp; Alloys</b>  |                          |                                                     |
| 261.             | Tin                         | Cadmium (Cd)             | TPM/MSK/37 (ICP-OES) (Issue No.04 dated 01.12.2022) |
| 262.             | Tin                         | Copper (Cu)              | TPM/MSK/37 (ICP-OES) (Issue No.04 dated 01.12.2022) |
| 263.             | Tin                         | Iron (Fe)                | TPM/MSK/37 (ICP-OES) (Issue No.04 dated 01.12.2022) |
| 264.             | Tin                         | Lead (Pb)                | TPM/MSK/37 (ICP-OES) (Issue No.04 dated 01.12.2022) |
| 265.             | Tin                         | Zinc (Zn)                | TPM/MSK/37 (ICP-OES) (Issue No.04 dated 01.12.2022) |



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## Centre for Laboratory Accreditation



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Valid until: 12 July 2025

**Accreditation Standard: ISO/IEC 17025:2017**

| Chemical Testing |                             |                                                |                                                                                      |
|------------------|-----------------------------|------------------------------------------------|--------------------------------------------------------------------------------------|
| Sl. No.          | Product(s)/Material of Test | Specific Tests Performed                       | Test Method                                                                          |
|                  | <b>Ores &amp; Minerals</b>  |                                                |                                                                                      |
| 1.               | Aluminium Ore/ Bauxite      | Alumina (Al <sub>2</sub> O <sub>3</sub> )      | IS 2000: (Part 3):1985, RA : 2022                                                    |
| 2.               | Aluminium Ore/ Bauxite      | Available Alumina                              | TPM/MSK/4/K (Issue No.01 dated 01.04.2019)                                           |
| 3.               | Aluminium Ore/ Bauxite      | Calcium Oxide (CaO)                            | TPM/MSK/4/F2 (ICP-OES) (Issue No.02dated 01.12.2022)                                 |
| 4.               | Aluminium Ore/ Bauxite      | Ferric Oxide (Fe <sub>2</sub> O <sub>3</sub> ) | IS 2000: (Part 4):1985, RA: 2022                                                     |
| 5.               | Aluminium Ore/ Bauxite      | Loss on Ignition (LOI)                         | IS 2000: (Part1):1985, RA: 2022                                                      |
| 6.               | Aluminium Ore/ Bauxite      | Magnesium Oxide (MgO)                          | TPM/MSK/4/F2(ICP-OES) (Issue No.02 dated 01.12.2022)                                 |
| 7.               | Aluminium Ore/ Bauxite      | Moisture                                       | ISO 9033 :1989(E)                                                                    |
| 8.               | Aluminium Ore/ Bauxite      | Mono Hydrate Alumina (MHA)                     | TPM/MSK/4/I (Thermo Gravimetric Analysis) (Issue No.02 dated 01.04.2019)             |
| 9.               | Aluminium Ore/ Bauxite      | Phosphorus (P)                                 | IS 2000 (Part 7) :2001, RA 2022                                                      |
| 10.              | Aluminium Ore/ Bauxite      | Phosphorus (P)                                 | TPM/MSK/4/F2 (ICP-OES) (Issue No.02dated 01.12.2022)                                 |
| 11.              | Aluminium Ore/ Bauxite      | Reactive Silica                                | TPM/MSK/4/J (Issue No. 03 dated 01.10.2022)                                          |
| 12.              | Aluminium Ore/ Bauxite      | Silica (SiO <sub>2</sub> )                     | IS 2000 : (Part 2):1985, RA : 2022                                                   |
| 13.              | Aluminium Ore/ Bauxite      | Titania (TiO <sub>2</sub> )                    | TPM/MSK/4/F2 (ICP-OES) (Issue No.02dated 01.12.2022)                                 |
| 14.              | Aluminium Ore/ Bauxite      | Titania (TiO <sub>2</sub> )                    | IS 2000: (Part 5):1985, RA : 2022                                                    |
| 15.              | Aluminium Ore/ Bauxite      | TML (Transportable Moisture Limit)             | IMSBC Code, Appendix 2, 2022 Edition (Modified Proctor Fagerberg Method for Bauxite) |



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Valid until: 12 July 2025

**Accreditation Standard: ISO/IEC 17025:2017**

| Chemical Testing |                                                 |                                                             |                                                                          |
|------------------|-------------------------------------------------|-------------------------------------------------------------|--------------------------------------------------------------------------|
| Sl. No.          | Product(s)/Material of Test                     | Specific Tests Performed                                    | Test Method                                                              |
|                  | <b>Ores &amp; Minerals</b>                      |                                                             |                                                                          |
| 16.              | Aluminium Ore/ Bauxite                          | Tri Hydrate Alumina (THA)                                   | TPM/MSK/4/I (Thermo Gravimetric Analysis) (Issue No.02 dated 01.04.2019) |
| 17.              | Chromite Ore (Chromium Ore)/ Chrome Concentrate | Alumina (Al <sub>2</sub> O <sub>3</sub> )                   | IS 4737 : 1982, RA 2021                                                  |
| 18.              | Chromite Ore (Chromium Ore)/ Chrome Concentrate | Alumina (Al <sub>2</sub> O <sub>3</sub> )                   | TPM/MSK/3/D/1(Issue No. 02 dated 01.10.2022)                             |
| 19.              | Chromite Ore (Chromium Ore)/ Chrome Concentrate | calcium Oxide (CaO)                                         | IS 4737: 1982, RA 2021                                                   |
| 20.              | Chromite Ore (Chromium Ore)/ Chrome Concentrate | Calcium Oxide (CaO)                                         | TPM/MSK/3/E/1 (Issue No. 02 dated 01.10.2022)                            |
| 21.              | Chromite Ore (Chromium Ore)/ Chrome Concentrate | Chromic Oxide (Cr <sub>2</sub> O <sub>3</sub> )             | IS 4737: 1982, RA 2021                                                   |
| 22.              | Chromite Ore (Chromium Ore)/ Chrome Concentrate | Chromic Oxide (Cr <sub>2</sub> O <sub>3</sub> )             | TPM/MSK/3/B/1(Issue No. 02 dated 01.10.2022)                             |
| 23.              | Chromite Ore (Chromium Ore)/ Chrome Concentrate | Chromic Oxide (Cr <sub>2</sub> O <sub>3</sub> )             | ISO 6331:1983, RC 2016                                                   |
| 24.              | Chromite Ore (Chromium Ore)/ Chrome Concentrate | Flow Moisture Point (FMP)Transportable Moisture Limit (TML) | Flow Table Method as per IMSBC Code, Appendix 2, 2022                    |
| 25.              | Chromite Ore (Chromium Ore)/ Chrome Concentrate | Magnesium Oxide (MgO)                                       | TPM/MSK/3/F/1(Issue No. 02 dated 01.10.2022)                             |
| 26.              | Chromite Ore (Chromium Ore)/ Chrome Concentrate | Magnesium Oxide (MgO)                                       | IS 4737: 1982, RA 2021                                                   |
| 27.              | Chromite Ore (Chromium Ore)/ Chrome Concentrate | Moisture                                                    | IS 8562:1977, RA 2017                                                    |



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Valid until: 12 July 2025

**Accreditation Standard: ISO/IEC 17025:2017**

| Chemical Testing |                                                 |                                    |                                                                 |
|------------------|-------------------------------------------------|------------------------------------|-----------------------------------------------------------------|
| Sl. No.          | Product(s)/Material of Test                     | Specific Tests Performed           | Test Method                                                     |
|                  | <b>Ores &amp; Minerals</b>                      |                                    |                                                                 |
| 28.              | Chromite Ore (Chromium Ore)/ Chrome Concentrate | Phosphorus (P)                     | TPM/MSK/3/G/2 (Issue No. 03 dated 01.10.2022)                   |
| 29.              | Chromite Ore (Chromium Ore)/ Chrome Concentrate | Silica (SiO <sub>2</sub> )         | IS 4737: 1982, RA 2021                                          |
| 30.              | Chromite Ore (Chromium Ore)/ Chrome Concentrate | Silica (SiO <sub>2</sub> )         | TPM/MSK/3/A/1 (Issue No. 02 dated 01.10.2022)                   |
| 31.              | Chromite Ore (Chromium Ore)/ Chrome Concentrate | Silica (SiO <sub>2</sub> )         | ISO 5997-1984 (Method B), RC 2022                               |
| 32.              | Chromite Ore (Chromium Ore)/ Chrome Concentrate | TML (Transportable Moisture Limit) | IMSBC Code, Appendix 2, 2022 Edition (Proctor Fagerberg Method) |
| 33.              | Chromite Ore (Chromium Ore)/ Chrome Concentrate | TML (Transportable Moisture Limit) | IMSBC Code, Appendix 2, 2022 Edition (Penetration method)       |
| 34.              | Chromite Ore (Chromium Ore)/ Chrome Concentrate | Total Iron (Fe)                    | IS 4737 :1982, RA 2021                                          |
| 35.              | Chromite Ore (Chromium Ore)/ Chrome Concentrate | Total Iron (Fe)                    | ISO 6130:1985, RC 2022                                          |
| 36.              | Chromite Ore (Chromium Ore)/ Chrome Concentrate | Total Iron (Fe)                    | TPM/MSK/3/C/1 (Issue No. 02 dated 01.10.2022)                   |
| 37.              | Copper Ore/ Concentrates/ Copper Mette          | Silica (SiO <sub>2</sub> )         | TPM/MSK/47/B (Issue No.02 dated 01.04.2022)                     |
| 38.              | Copper Ore/ Concentrates/ Copper Mette          | Arsenic (As)                       | TPM/MSK/47/G (ICP-OES) (Issue No.03 dated 01.12.2022)           |
| 39.              | Copper Ore/ Concentrates/ Copper Mette          | Copper (Cu)                        | ISO 10258:2018                                                  |
| 40.              | Copper Ore/ Concentrates/ Copper Mette          | Copper (Cu)                        | TPM/MSK/47/A (Issue No.02 dated 01.04.2022)                     |

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## Centre for Laboratory Accreditation



### Scope of Accreditation

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**QAI/CLA/TL/2023/0015**

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Valid until: 12 July 2025

**Accreditation Standard: ISO/IEC 17025:2017**

| Chemical Testing |                                           |                                    |                                                        |
|------------------|-------------------------------------------|------------------------------------|--------------------------------------------------------|
| Sl. No.          | Product(s)/Material of Test               | Specific Tests Performed           | Test Method                                            |
|                  | <b>Ores &amp; Minerals</b>                |                                    |                                                        |
| 41.              | Copper Ore/ Concentrates/<br>Copper Mette | Copper (Cu)                        | TPM/MSK/47/G (ICP-OES) (Issue No.03 dated 01.12.2022)  |
| 42.              | Copper Ore/ Concentrates/<br>Copper Mette | Gold (Au)                          | ISO 10378:2016 (Fire Assay)                            |
| 43.              | Copper Ore/ Concentrates/<br>Copper Mette | Iron (Fe)                          | TPM/MSK/47/E (Issue No.02 dated 01.04.2022)            |
| 44.              | Copper Ore/ Concentrates/<br>Copper Mette | Iron (Fe)                          | TPM/MSK/47/G (ICP-OES) (Issue No.03 dated 01.12.2022)  |
| 45.              | Copper Ore/ Concentrates/<br>Copper Mette | Lead (Pb)                          | TPM/MSK/47/C (Issue No.02 dated 01.04.2022)            |
| 46.              | Copper Ore/ Concentrates/<br>Copper Mette | Lead (Pb)                          | TPM/MSK/47/G (ICP-OES) (Issue No.03 dated 01.12.2022)  |
| 47.              | Copper Ore/ Concentrates/<br>Copper Mette | Moisture                           | ISO 10251:2006, RC 2020                                |
| 48.              | Copper Ore/ Concentrates/<br>Copper Mette | Phosphorus (P)                     | TPM/MSK/47/G (ICP OES) (Issue No.03 dated 01.12.2022)  |
| 49.              | Copper Ore/ Concentrates/<br>Copper Mette | Silver (Ag)                        | TPM/MSK/47/I (ICP-OES) (Issue No.01, dated 01.12.2022) |
| 50.              | Copper Ore/ Concentrates/<br>Copper Mette | Sulphur (S)                        | TPM/MSK/47/F (Issue No.02 dated 01.04.2022)            |
| 51.              | Copper Ore/ Concentrates/<br>Copper Mette | Transportable Moisture Limit (TML) | IMSBC Code, Appendix -2(Flow Table Method) : 2022      |
| 52.              | Copper Ore/ Concentrates/<br>Copper Mette | Zinc (Zn)                          | TPM/MSK/47/D (Issue No.02 dated 01.04.2022)            |
| 53.              | Copper Ore/ Concentrates/<br>Copper Mette | Zinc (Zn)                          | TPM/MSK/47/G (ICP-OES) (Issue No.03 dated 01.12.2022)  |



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| Chemical Testing |                             |                                                             |                                                        |
|------------------|-----------------------------|-------------------------------------------------------------|--------------------------------------------------------|
| Sl. No.          | Product(s)/Material of Test | Specific Tests Performed                                    | Test Method                                            |
|                  | <b>Ores &amp; Minerals</b>  |                                                             |                                                        |
| 54.              | Gypsum                      | Alumina ( $Al_2O_3$ )                                       | TPM/MSK/31/A1 (ICP-OES) (Issue No.04 dated 01.12.2022) |
| 55.              | Gypsum                      | Calcium Oxide (CaO)                                         | IS 1288: 1982, RA 2021                                 |
| 56.              | Gypsum                      | Calcium Oxide (CaO)                                         | ASTM C471M -20a                                        |
| 57.              | Gypsum                      | Calcium Sulfate dihydrate ( $CaSO_4 \cdot 2H_2O$ )/Purity   | IS 1288: 1982, RA 2021                                 |
| 58.              | Gypsum                      | Calcium Sulfate dihydrate ( $CaSO_4 \cdot 2H_2O$ )/ Purity  | ASTM C471M- 20a                                        |
| 59.              | Gypsum                      | Combined Water                                              | IS 1288: 1982, RA 2021                                 |
| 60.              | Gypsum                      | Combined Water                                              | ASTM C471M -20a                                        |
| 61.              | Gypsum                      | Ferric Oxide ( $Fe_2O_3$ )                                  | TPM/MSK/31/A1 (ICP-OES) (Issue No.04 dated 01.12.2022) |
| 62.              | Gypsum                      | Free Water                                                  | IS 1288: 1982, RA 2021                                 |
| 63.              | Gypsum                      | Free Water                                                  | ASTM C471M -20a                                        |
| 64.              | Gypsum                      | Iron and Aluminum Oxide ( $Fe_2O_3 + Al_2O_3$ )             | IS 1288: 1982, RA 2021                                 |
| 65.              | Gypsum                      | Iron and Aluminum Oxide ( $Fe_2O_3 + Al_2O_3$ )             | ASTM C471M- 20a                                        |
| 66.              | Gypsum                      | Magnesium Oxide (MgO)                                       | IS 1288: 1982, RA 2021                                 |
| 67.              | Gypsum                      | Magnesium Oxide (MgO)                                       | ASTM C471M- 20a                                        |
| 68.              | Gypsum                      | Silica ( $SiO_2$ ) and Acid insoluble                       | IS 1288: 1982, RA 2021                                 |
| 69.              | Gypsum                      | Silicon Dioxide ( $SiO_2$ ) and other Acid insoluble matter | ASTM C471M- 20a                                        |
| 70.              | Gypsum                      | Sulfur trioxide ( $SO_3$ )                                  | IS 1288: 1982, RA 2021                                 |
| 71.              | Gypsum                      | Sulfur trioxide ( $SO_3$ )                                  | ASTM C471M- 20a                                        |



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| Chemical Testing |                             |                                           |                                                                 |
|------------------|-----------------------------|-------------------------------------------|-----------------------------------------------------------------|
| Sl. No.          | Product(s)/Material of Test | Specific Tests Performed                  | Test Method                                                     |
|                  | <b>Ores &amp; Minerals</b>  |                                           |                                                                 |
| 72.              | Iron Ore Pellet             | Alumina (Al <sub>2</sub> O <sub>3</sub> ) | IS 1493 (Part-1):1981 Ref: IS 11092:2001, RA 2021:2021          |
| 73.              | Iron Ore Pellet             | Alumina (Al <sub>2</sub> O <sub>3</sub> ) | ISO 11535:2006, RC 2022                                         |
| 74.              | Iron Ore Pellet             | Alumina (Al <sub>2</sub> O <sub>3</sub> ) | ISO 6830:1986, RC 2021                                          |
| 75.              | Iron Ore Pellet             | Calcium Oxide (CaO)                       | ISO 11535:2006, RC 2022                                         |
| 76.              | Iron Ore Pellet             | Chromium (Cr)                             | TPM/MSK/1/H (ICP-OES) (Issue No. 04 dated 01.12.2022)           |
| 77.              | Iron Ore Pellet             | Ferrous Iron (Fe <sup>2+</sup> )          | ISO 9035:1989, RC 2017                                          |
| 78.              | Iron Ore Pellet             | Magnesium Oxide (MgO)                     | ISO 11535:2006, RC 2022                                         |
| 79.              | Iron Ore Pellet             | Manganese (Mn)                            | ISO 11535:2006, RC 2022                                         |
| 80.              | Iron Ore Pellet             | Moisture                                  | ISO 3087:2020                                                   |
| 81.              | Iron Ore Pellet             | Phosphorus (P)                            | ISO 11535:2006, RC 2022                                         |
| 82.              | Iron Ore Pellet             | Potassium Oxide (K <sub>2</sub> O)        | TPM/MSK/1/H (ICP-OES) (Issue No. 04 dated 01.12.2022)           |
| 83.              | Iron Ore Pellet             | Silica (SiO <sub>2</sub> )                | IS 1493 (Part-1):1981 Ref: IS 11092:2001, RA 2021               |
| 84.              | Iron Ore Pellet             | Silica (SiO <sub>2</sub> )                | ISO 2598-1:1992, RC 2022                                        |
| 85.              | Iron Ore Pellet             | Sodium Oxide (Na <sub>2</sub> O)          | TPM/MSK/1/H (ICP-OES) (Issue No. 04 dated 01.12.2022)           |
| 86.              | Iron Ore Pellet             | Sulphur(S)                                | ISO 4689-3:2017                                                 |
| 87.              | Iron Ore Pellet             | Titanium Dioxide (TiO <sub>2</sub> )      | ISO 11535:2006, 2022                                            |
| 88.              | Iron Ore Pellet             | TML (Transportable Moisture Limit)        | IMSBC Code, Appendix 2, 2022 Edition (Proctor Fagerberg Method) |
| 89.              | Iron Ore Pellet             | TML (Transportable Moisture Limit)        | IMSBC Code, Appendix 2, 2022 Edition (Penetration method)       |



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Kolkata-700141, West Bengal, India

**QAI/CLA/TL/2023/0015**

Valid from: 13 July 2023

Valid until: 12 July 2025

**Accreditation Standard: ISO/IEC 17025:2017**

| Chemical Testing |                                                |                                           |                                                       |
|------------------|------------------------------------------------|-------------------------------------------|-------------------------------------------------------|
| Sl. No.          | Product(s)/Material of Test                    | Specific Tests Performed                  | Test Method                                           |
|                  | <b>Ores &amp; Minerals</b>                     |                                           |                                                       |
| 90.              | Iron Ore Pellet                                | Total Iron (Fe)                           | IS 1493 (Part-1):1981 Ref: IS 11092:2001, RA 2021     |
| 91.              | Iron Ore Pellet                                | Total Iron (Fe)                           | ISO 2597-1:2006, RC 2022                              |
| 92.              | Iron Ore Pellet                                | Total Iron (Fe)                           | ISO 2597-2:2019                                       |
| 93.              | Iron Ore Pellet                                | Total Iron (Fe)                           | ASTM E246-21                                          |
| 94.              | Iron Ore Pellet                                | Vanadium (V)                              | TPM/MSK/1/H (ICP-OES) (Issue No. 04 dated 01.12.2022) |
| 95.              | Iron Ore/Iron Ore Concentrate /Iron Ore Sinter | Alumina (Al <sub>2</sub> O <sub>3</sub> ) | IS 1493(Part 1) :1981, RA 2021                        |
| 96.              | Iron Ore/Iron Ore Concentrate /Iron Ore Sinter | Alumina (Al <sub>2</sub> O <sub>3</sub> ) | ISO 6830:1986 , RC 2021                               |
| 97.              | Iron Ore/Iron Ore Concentrate /Iron Ore Sinter | Alumina (Al <sub>2</sub> O <sub>3</sub> ) | ISO 11535:2006, RC 2022                               |
| 98.              | Iron Ore/Iron Ore Concentrate /Iron Ore Sinter | Arsenic (As)                              | TPM/MSK/1/H (ICP-OES) (Issue No. 04 dated 01.12.2022) |
| 99.              | Iron Ore/Iron Ore Concentrate /Iron Ore Sinter | Calcium Oxide (CaO)                       | ISO 11535:2006, RC 2022                               |
| 100.             | Iron Ore/Iron Ore Concentrate /Iron Ore Sinter | Chromium (Cr)                             | TPM/MSK/1/H (ICP-OES) (Issue No. 04 dated 01.12.2022) |



# Quality And Accreditation Institute

## Centre for Laboratory Accreditation



### Scope of Accreditation

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| Chemical Testing |                                                |                                  |                                                          |
|------------------|------------------------------------------------|----------------------------------|----------------------------------------------------------|
| Sl. No.          | Product(s)/Material of Test                    | Specific Tests Performed         | Test Method                                              |
|                  | <b>Ores &amp; Minerals</b>                     |                                  |                                                          |
| 101.             | Iron Ore/Iron Ore Concentrate /Iron Ore Sinter | Copper (Cu)                      | TPM/MSK/1/H (ICP-OES) (Issue No. 04 dated 01.12.2022)    |
| 102.             | Iron Ore/Iron Ore Concentrate /Iron Ore Sinter | Ferrous Iron (Fe <sup>2+</sup> ) | ISO 9035:1989, RC 2017                                   |
| 103.             | Iron Ore/Iron Ore Concentrate /Iron Ore Sinter | Flow Moisture Point (FMP)        | IMSBC Code, Appendix 2, 2022 Edition (Flow Table Method) |
| 104.             | Iron Ore/Iron Ore Concentrate /Iron Ore Sinter | Lead (Pb)                        | TPM/MSK/1/H (ICP-OES) (Issue No. 04 dated 01.12.2022)    |
| 105.             | Iron Ore/Iron Ore Concentrate /Iron Ore Sinter | Loss on Ignition (LOI)           | TPM/MSK/1/V1 (Issue no.03 dated 01.04.2019)              |
| 106.             | Iron Ore/Iron Ore Concentrate /Iron Ore Sinter | Magnesium Oxide (MgO)            | ISO 11535:2006, RC 2022                                  |
| 107.             | Iron Ore/Iron Ore Concentrate /Iron Ore Sinter | Manganese (Mn)                   | IS 1493:1959, RA 2021                                    |
| 108.             | Iron Ore/Iron Ore Concentrate /Iron Ore Sinter | Manganese (Mn)                   | ISO 11535:2006, RC 2022                                  |
| 109.             | Iron Ore/Iron Ore Concentrate /Iron Ore Sinter | Moisture                         | IS 11690:1986, RA 2019                                   |

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# Quality And Accreditation Institute

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### Scope of Accreditation

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| Chemical Testing |                                                |                                    |                                                       |
|------------------|------------------------------------------------|------------------------------------|-------------------------------------------------------|
| Sl. No.          | Product(s)/Material of Test                    | Specific Tests Performed           | Test Method                                           |
|                  | <b>Ores &amp; Minerals</b>                     |                                    |                                                       |
| 110.             | Iron Ore/Iron Ore Concentrate /Iron Ore Sinter | Moisture                           | IS 1493(Part 1):198, RA 2021                          |
| 111.             | Iron Ore/Iron Ore Concentrate /Iron Ore Sinter | Moisture                           | ISO 3087:2020                                         |
| 112.             | Iron Ore/Iron Ore Concentrate /Iron Ore Sinter | Nickel (Ni)                        | TPM/MSK/1/H (ICP-OES (Issue No. 04 dated 01.12.2022)  |
| 113.             | Iron Ore/Iron Ore Concentrate /Iron Ore Sinter | Phosphorus (P)                     | IS 1493:1959, RA 2021                                 |
| 114.             | Iron Ore/Iron Ore Concentrate /Iron Ore Sinter | Phosphorus (P)                     | ISO 11535:2006, RA 2022                               |
| 115.             | Iron Ore/Iron Ore Concentrate /Iron Ore Sinter | Potassium Oxide (K <sub>2</sub> O) | TPM/MSK/1/H (ICP-OES) (Issue No. 04 dated 01.12.2022) |
| 116.             | Iron Ore/Iron Ore Concentrate /Iron Ore Sinter | Silica (SiO <sub>2</sub> )         | IS 1493(Part 1):1981, RA 2021                         |
| 117.             | Iron Ore/Iron Ore Concentrate /Iron Ore Sinter | Silica (SiO <sub>2</sub> )         | ISO 2598-1:1992, RC 2022                              |
| 118.             | Iron Ore/Iron Ore Concentrate /Iron Ore Sinter | Sodium Oxide (Na <sub>2</sub> O)   | TPM/MSK/1/H (ICP-OES) (Issue No. 04 dated 01.12.2022) |

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# Quality And Accreditation Institute

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| Chemical Testing |                                                |                                      |                                                           |
|------------------|------------------------------------------------|--------------------------------------|-----------------------------------------------------------|
| Sl. No.          | Product(s)/Material of Test                    | Specific Tests Performed             | Test Method                                               |
|                  | <b>Ores &amp; Minerals</b>                     |                                      |                                                           |
| 119.             | Iron Ore/Iron Ore Concentrate /Iron Ore Sinter | Sulphur (S)                          | ISO 4689-3:2017                                           |
| 120.             | Iron Ore/Iron Ore Concentrate /Iron Ore Sinter | Titanium Dioxide (TiO <sub>2</sub> ) | IS 1493:1959, RA 2021                                     |
| 121.             | Iron Ore/Iron Ore Concentrate /Iron Ore Sinter | Titanium Dioxide (TiO <sub>2</sub> ) | ISO 11535:2006, RC 2022                                   |
| 122.             | Iron Ore/Iron Ore Concentrate /Iron Ore Sinter | Total Iron (Fe)                      | IS 1493(Part-1):1981, RA 2021                             |
| 123.             | Iron Ore/Iron Ore Concentrate /Iron Ore Sinter | Total Iron (Fe)                      | ISO 2597-1:2006, RC 2022                                  |
| 124.             | Iron Ore/Iron Ore Concentrate /Iron Ore Sinter | Total Iron (Fe)                      | ISO 2597-2:2019                                           |
| 125.             | Iron Ore/Iron Ore Concentrate /Iron Ore Sinter | Total Iron (Fe)                      | ASTM E246-21                                              |
| 126.             | Iron Ore/Iron Ore Concentrate /Iron Ore Sinter | Total Iron (Fe)                      | TPM/MSK/1/B1(Issue No. 03 dated 01.04.2022)               |
| 127.             | Iron Ore/Iron Ore Concentrate /Iron Ore Sinter | Transportable Moisture Limit (TML)   | IMSBC Code, Appendix 2, 2022 Edition (Penetration method) |

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# Quality And Accreditation Institute

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**QAI/CLA/TL/2023/0015**

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**Accreditation Standard: ISO/IEC 17025:2017**

| Chemical Testing |                                                |                                    |                                                                          |
|------------------|------------------------------------------------|------------------------------------|--------------------------------------------------------------------------|
| Sl. No.          | Product(s)/Material of Test                    | Specific Tests Performed           | Test Method                                                              |
|                  | <b>Ores &amp; Minerals</b>                     |                                    |                                                                          |
| 128.             | Iron Ore/Iron Ore Concentrate /Iron Ore Sinter | Transportable Moisture Limit (TML) | IMSBC Code, Appendix 2, 2022 Edition (Modified Proctor Fagerberg Method) |
| 129.             | Iron Ore/Iron Ore Concentrate /Iron Ore Sinter | Transportable Moisture Limit (TML) | IMSBC Code, Appendix 2, 2022 Edition (Flow Table Method)                 |
| 130.             | Iron Ore/Iron Ore Concentrate /Iron Ore Sinter | Vanadium (V)                       | TPM/MSK/1/H (ICP-OES) (Issue No. 04 dated 01.12.2022)                    |
| 131.             | Iron Ore/Iron Ore Concentrate /Iron Ore Sinter | Zinc (Zn)                          | TPM/MSK/1/H (ICP-OES) (Issue No. 04 dated 01.12.2022)                    |
| 132.             | Lead Ores/ Concentrates                        | Arsenic (As)                       | TPM/MSK/46/G (ICP-OES) (Issue No. 3 dated 01.12.2022)                    |
| 133.             | Lead Ores/ Concentrates                        | Copper (Cu)                        | TPM/MSK/46/C (Issue No.02 dated 01.04.2022)                              |
| 134.             | Lead Ores/ Concentrates                        | Copper (Cu)                        | TPM/MSK/46/G (ICP-OES) (Issue No.03 dated 01.12.2022)                    |
| 135.             | Lead Ores/ Concentrates                        | Iron (Fe)                          | TPM/MSK/46/G (ICP-OES) (Issue No.3 dated 01.12.2022)                     |
| 136.             | Lead Ores/ Concentrates                        | Iron (Fe)                          | TPM/MSK/46/E (Issue No.02 dated 01.04.2022)                              |
| 137.             | Lead Ores/ Concentrates                        | Lead (Pb)                          | ISO 13545:2000, RC 2020                                                  |
| 138.             | Lead Ores/ Concentrates                        | Lead (Pb)                          | TPM/MSK/46/A(Issue No.02 dated 01.04.2022)                               |
| 139.             | Lead Ores/ Concentrates                        | Lead (Pb)                          | TPM/MSK/46/G (ICP-OES) (Issue No.03 dated 01.12.2022)                    |

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## Centre for Laboratory Accreditation



### Scope of Accreditation

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| Chemical Testing |                             |                                                |                                                           |
|------------------|-----------------------------|------------------------------------------------|-----------------------------------------------------------|
| Sl. No.          | Product(s)/Material of Test | Specific Tests Performed                       | Test Method                                               |
|                  | <b>Ores &amp; Minerals</b>  |                                                |                                                           |
| 140.             | Lead Ores/ Concentrates     | Mercury (Hg)                                   | TPM/MSK/46/G (ICP-OES) (Issue No. 03 dated 01.12.2022)    |
| 141.             | Lead Ores/ Concentrates     | Moisture                                       | ISO 10251:2006, RC 2020                                   |
| 142.             | Lead Ores/ Concentrates     | Phosphorus (P)                                 | TPM/MSK/46/G (ICP-OES) (Issue No. 03 dated 01.12.2022)    |
| 143.             | Lead Ores/ Concentrates     | Silica (SiO <sub>2</sub> )                     | TPM/MSK/46/A (Issue No.02 dated 01.04.2022)               |
| 144.             | Lead Ores/ Concentrates     | Silver (Ag)                                    | SOP: TPM/MSK/46/I (ICP-OES) (Issue No.1 dated 01.12.2022) |
| 145.             | Lead Ores/ Concentrates     | Sulphur (S)                                    | TPM/MSK/46/F (Issue No.02 dated 01.04.2022)               |
| 146.             | Lead Ores/ Concentrates     | Transportable Moisture Limit (TML)             | Flow table method as per IMSBC Code, Appendix -2 :2022    |
| 147.             | Lead Ores/ Concentrates     | Zinc (Zn)                                      | TPM/MSK/46/D (Issue No.02 dated 01.04.2022)               |
| 148.             | Lead Ores/ Concentrates     | Zinc (Zn)                                      | TPM/MSK/46/G (ICP-OES) (Issue No.03 dated 01.12.2022)     |
| 149.             | Dolomite                    | Alumina (Al <sub>2</sub> O <sub>3</sub> )      | IS 1760 (Part 3):1992, RA 2022                            |
| 150.             | Dolomite                    | Alumina (Al <sub>2</sub> O <sub>3</sub> )      | TPM/MSK/5/C3 (ICP-OES) (Issue No.04 dated 01.12.2022)     |
| 151.             | Dolomite                    | Calcium Oxide (CaO)                            | IS 1760 (Part 3):1992, RA 2022                            |
| 152.             | Dolomite                    | Ferric Oxide (Fe <sub>2</sub> O <sub>3</sub> ) | IS 1760 (Part 3):1992, RA 2022                            |
| 153.             | Dolomite                    | Ferric Oxide (Fe <sub>2</sub> O <sub>3</sub> ) | TPM/MSK/5/C3 (ICP-OES) (Issue No.04 dated 01.12.2022)     |
| 154.             | Dolomite                    | Free Silica                                    | IS 1760 (Part 6): 2001, RA 2022                           |
| 155.             | Dolomite                    | Loss on Ignition (LOI)                         | IS 1760 (Part 1):1991, RA 2022                            |
| 156.             | Dolomite                    | Magnesium Oxide (MgO)                          | IS 1760 (Part 3):1992, RA 2022                            |

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# Quality And Accreditation Institute

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| Chemical Testing |                             |                                                |                                                       |
|------------------|-----------------------------|------------------------------------------------|-------------------------------------------------------|
| Sl. No.          | Product(s)/Material of Test | Specific Tests Performed                       | Test Method                                           |
|                  | <b>Ores &amp; Minerals</b>  |                                                |                                                       |
| 157.             | Dolomite                    | Potassium Oxide (K <sub>2</sub> O)             | TPM/MSK/5/H2 (ICP-OES) (Issue No.04 dated 01.12.2022) |
| 158.             | Dolomite                    | Silica (SiO <sub>2</sub> )                     | IS 1760 (Part2):1991, RA 2022                         |
| 159.             | Dolomite                    | Sodium Oxide (Na <sub>2</sub> O)               | TPM/MSK/5/H2(ICP-OES) (Issue No.04 dated 01.12.2022)  |
| 160.             | Dolomite                    | Titanium Oxide (TiO <sub>2</sub> )             | TPM/MSK/5/C3 (ICP-OES) (Issue No.04 dated 01.12.2022) |
| 161.             | Hydrated Lime               | Ca(OH) <sub>2</sub>                            | IS 1540 (Part 2): 1990, RA 2020 & IS 1514:1990, RA    |
| 162.             | Limestone                   | Alumina (Al <sub>2</sub> O <sub>3</sub> )      | IS 1760 (Part 3):1992, RA 2022                        |
| 163.             | Limestone                   | Alumina (Al <sub>2</sub> O <sub>3</sub> )      | TPM/MSK/5/C3(ICP-OES) (Issue No.04 dated 01.12.2022)  |
| 164.             | Limestone                   | Alumina (Al <sub>2</sub> O <sub>3</sub> )      | ASTM C 25-19                                          |
| 165.             | Limestone                   | Calcium Oxide (CaO)                            | IS 1760 (Part 3):1992, RA 2022                        |
| 166.             | Limestone                   | Calcium Oxide (CaO)                            | ASTM C25-19                                           |
| 167.             | Limestone                   | Decrepitation Index                            | IS 10345: 2004 RA 2019                                |
| 168.             | Limestone                   | Ferric Oxide (Fe <sub>2</sub> O <sub>3</sub> ) | IS 1760 (Part 3):1992,RA 2022                         |
| 169.             | Limestone                   | Ferric Oxide (Fe <sub>2</sub> O <sub>3</sub> ) | ASTM C 25-19                                          |
| 170.             | Limestone                   | Ferric Oxide (Fe <sub>2</sub> O <sub>3</sub> ) | TPM/MSK/5/C3 (ICP-OES) (Issue No.04 dated 01.12.2022) |
| 171.             | Limestone                   | Free Silica                                    | IS 1760 (Part 6):2001,RA 2022                         |
| 172.             | Limestone                   | Free Silica                                    | ASTM C25-19                                           |
| 173.             | Limestone                   | Loss on Ignition (LOI)                         | IS 1760 (Part 1):1991,RA 2022                         |
| 174.             | Limestone                   | Loss on Ignition (LOI)                         | ASTM C 25-19                                          |
| 175.             | Limestone                   | Magnesium Oxide (MgO)                          | ASTM C25-19                                           |
| 176.             | Limestone                   | Magnesium Oxide (MgO)                          | IS 1760 (Part 3):1992, RA 2022                        |

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# Quality And Accreditation Institute

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| Chemical Testing |                             |                                                                |                                                        |
|------------------|-----------------------------|----------------------------------------------------------------|--------------------------------------------------------|
| Sl. No.          | Product(s)/Material of Test | Specific Tests Performed                                       | Test Method                                            |
|                  | <b>Ores &amp; Minerals</b>  |                                                                |                                                        |
| 177.             | Limestone                   | Potassium Oxide (K <sub>2</sub> O)                             | TPM/MSK/5/H2 (ICP-OES) (Issue No.04 dated 01.12.2022)  |
| 178.             | Limestone                   | Silica (SiO <sub>2</sub> )                                     | IS1760 (Part2):1991, RA 2022                           |
| 179.             | Limestone                   | Silica (SiO <sub>2</sub> )                                     | ASTM C 25-19                                           |
| 180.             | Limestone                   | Sodium Oxide (Na <sub>2</sub> O)                               | TPM/MSK/5/H2 (ICP-OES) (Issue No.04 dated 01.12.2022)  |
| 181.             | Limestone                   | Titania (TiO <sub>2</sub> )                                    | TPM/MSK/5/C3(ICP-OES) (Issue No.04 dated 01.12.2022)   |
| 182.             | Manganese Ore               | Alumina (Al <sub>2</sub> O <sub>3</sub> )                      | IS 1473 : 2004, RA 2021                                |
| 183.             | Manganese Ore               | Alumina (Al <sub>2</sub> O <sub>3</sub> )                      | TPM/MSK/2/B2 (ICP-OES) (Issue No. 04 dated 01.12.2022) |
| 184.             | Manganese Ore               | Arsenic (As)                                                   | TPM/MSK/2/B2 (ICP-OES) (Issue No. 04 dated 01.12.2022) |
| 185.             | Manganese Ore               | Barium Oxide (BaO)                                             | TPM/MSK/2/B2 (ICP-OES) (Issue No. 04 dated 01.12.2022) |
| 186.             | Manganese Ore               | Calcium Oxide (CaO)                                            | TPM/MSK/2/B2 (ICP-OES) (Issue No. 04 dated 01.12.2022) |
| 187.             | Manganese Ore               | Copper (Cu)                                                    | TPM/MSK/2/B2 (ICP-OES) (Issue No. 04 dated 01.12.2022) |
| 188.             | Manganese Ore               | Flow Moisture Point (FMP) & Transportable Moisture Limit (TML) | Flow Table Method, IMSBC Code Appendix 2, 2022         |
| 189.             | Manganese Ore               | Iron (Fe)                                                      | IS 1473: 2004, RA 2021                                 |
| 190.             | Manganese Ore               | Iron (Fe)                                                      | ISO 7990: 1985(Method A),RC 2022                       |
| 191.             | Manganese Ore               | Lead (Pb)                                                      | TPM/MSK/2/B2 (ICP-OES) (Issue No. 04 dated 01.12.2022) |

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| Chemical Testing |                             |                                       |                                                                                          |
|------------------|-----------------------------|---------------------------------------|------------------------------------------------------------------------------------------|
| Sl. No.          | Product(s)/Material of Test | Specific Tests Performed              | Test Method                                                                              |
|                  | <b>Ores &amp; Minerals</b>  |                                       |                                                                                          |
| 192.             | Manganese Ore               | Magnesium Oxide (MgO)                 | TPM/MSK/2/B2 (ICP-OES) (Issue No. 04 dated 01.12.2022)                                   |
| 193.             | Manganese Ore               | Manganese (Mn)                        | IS 1473: 2004, RA 2021                                                                   |
| 194.             | Manganese Ore               | Manganese (Mn)                        | ISO 4298 :2022(E)                                                                        |
| 195.             | Manganese Ore               | Manganese dioxide (MnO <sub>2</sub> ) | IS 1473: 2004, RA 2021                                                                   |
| 196.             | Manganese Ore               | Manganese dioxide (MnO <sub>2</sub> ) | ISO 312: 2016                                                                            |
| 197.             | Manganese Ore               | Moisture                              | IS 1449: 2010, RA 2021                                                                   |
| 198.             | Manganese Ore               | Moisture                              | ISO 4299: 1989, RC 2022                                                                  |
| 199.             | Manganese Ore               | Nickel (Ni)                           | TPM/MSK/2/B2 (ICP-OES) (Issue No. 04 dated 01.12.2022)                                   |
| 200.             | Manganese Ore               | Phosphorus (P)                        | IS 1473: 2004, RA 2021                                                                   |
| 201.             | Manganese Ore               | Phosphorus (P)                        | TPM/MSK/2/B2 (ICP-OES) (Issue No. 04 dated 01.12.2022)                                   |
| 202.             | Manganese Ore               | Potassium Oxide (K <sub>2</sub> O)    | TPM/MSK/2/B2 (ICP-OES) (Issue No. 04 dated 01.12.2022)                                   |
| 203.             | Manganese Ore               | Silica (SiO <sub>2</sub> )            | IS 1473: 2004, RA 2021                                                                   |
| 204.             | Manganese Ore               | Silica (SiO <sub>2</sub> )            | ISO 5890:1981, RC 2022                                                                   |
| 205.             | Manganese Ore               | Sodium Oxide (Na <sub>2</sub> O)      | TPM/MSK/2/B2 (ICP-OES) (Issue No. 04 dated 01.12.2022)                                   |
| 206.             | Manganese Ore               | Sulphur (S)                           | TPM/MSK/2/J1<br>(Combustion Infra-red absorption Method) (Issue No. 03 dated 01.10.2022) |
| 207.             | Manganese Ore               | Titanium Dioxide (TiO <sub>2</sub> )  | TPM/MSK/2/B2 (ICP-OES) (Issue No. 04 dated 01.12.2022)                                   |



# Quality And Accreditation Institute

## Centre for Laboratory Accreditation



### Scope of Accreditation

**Mitra S. K. Private Limited**

Holding No. E-5-138/157, Ward No. 23, Gangarampur Road, Phase-2 R. H. S to Behala,  
Banerjee para, P.O-Raipur, P.S- Maheshtala, 24 Paraganas South,  
Kolkata-700141, West Bengal, India

**QAI/CLA/TL/2023/0015**

Valid from: 13 July 2023

Valid until: 12 July 2025

**Accreditation Standard: ISO/IEC 17025:2017**

| Chemical Testing |                             |                                           |                                                                 |
|------------------|-----------------------------|-------------------------------------------|-----------------------------------------------------------------|
| Sl. No.          | Product(s)/Material of Test | Specific Tests Performed                  | Test Method                                                     |
|                  | <b>Ores &amp; Minerals</b>  |                                           |                                                                 |
| 208.             | Manganese Ore               | TML (Transportable Moisture Limit)        | IMSBC Code, Appendix 2, 2022 Edition (Proctor Fagerberg Method) |
| 209.             | Manganese Ore               | TML (Transportable Moisture Limit)        | IMSBC Code, Appendix 2, 2022 Edition (Penetration method)       |
| 210.             | Manganese Ore               | Zinc (Zn)                                 | TPM/MSK/2/B2 (ICP-OES) (Issue No. 04 dated 01.12.2022)          |
| 211.             | Nickel Ore                  | Calcium Oxide (CaO)                       | TPM/MSK/49/D (Issue No.04 dated 01.01.2022)                     |
| 212.             | Nickel Ore                  | Alumina (Al <sub>2</sub> O <sub>3</sub> ) | TPM/MSK/49/F (Issue No.04 dated 01.01.2022)                     |
| 213.             | Nickel Ore                  | Cobalt (Co)                               | TPM/MSK/49/H (Issue No.04 dated 01.01.2022)                     |
| 214.             | Nickel Ore                  | Iron (Fe)                                 | TPM/MSK/49/C (Issue No.04 dated 01.01.2022)                     |
| 215.             | Nickel Ore                  | Magnesium Oxide (MgO)                     | TPM/MSK/49/E (Issue No.04 dated 01.01.2022)                     |
| 216.             | Nickel Ore                  | Nickel (Ni)                               | TPM/MSK/49/H (ICP-OES) (Issue No.01 dated 01.12.2022)           |
| 217.             | Nickel Ore                  | Nickel(Ni)                                | TPM/MSK/49/A (Issue No.04 dated 01.01.2022)/JIS M 8126-1994     |
| 218.             | Nickel Ore                  | Phosphorus (P)                            | TPM/MSK/49/H (Issue No.04 dated 01.01.2022)                     |
| 219.             | Nickel Ore                  | Silica (SiO <sub>2</sub> )                | TPM/MSK/49/B (Issue No.04 dated 01.01.2022)                     |



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| Chemical Testing |                                            |                                                 |                                                                                                 |
|------------------|--------------------------------------------|-------------------------------------------------|-------------------------------------------------------------------------------------------------|
| Sl. No.          | Product(s)/Material of Test                | Specific Tests Performed                        | Test Method                                                                                     |
|                  | <b>Ores &amp; Minerals</b>                 |                                                 |                                                                                                 |
| 220.             | Nickel Ore                                 | Sulphur (S)                                     | TPM/MSK/49/G<br>(Issue No.04 dated 01.01.2022)                                                  |
| 221.             | Pyroxenite / Oliflux/ Olivine sand/ Dunite | Alumina (Al <sub>2</sub> O <sub>3</sub> )       | TPM/MSK/43/E (Issue No.02 dated 01.04.2022)                                                     |
| 222.             | Pyroxenite / Oliflux/ Olivine sand/ Dunite | Calcium Oxide (CaO)                             | TPM/MSK/43/A (Issue No.02 dated 01.04.2022)                                                     |
| 223.             | Pyroxenite / Oliflux/ Olivine sand/ Dunite | Chromic Oxide (Cr <sub>2</sub> O <sub>3</sub> ) | TPM/MSK/43/G (Issue No.02 dated 01.04.2022)                                                     |
| 224.             | Pyroxenite / Oliflux/ Olivine sand/ Dunite | Ferric Oxide (Fe <sub>2</sub> O <sub>3</sub> )  | TPM/MSK/43/D (Issue No.02 dated 01.04.2022)                                                     |
| 225.             | Pyroxenite / Oliflux/ Olivine sand/ Dunite | Loss on Ignition (LOI)                          | TPM/MSK/43/F (Issue No.02 dated 01.04.2022)                                                     |
| 226.             | Pyroxenite / Oliflux/ Olivine sand/ Dunite | Magnesium Oxide (MgO)                           | TPM/MSK/43/B (Issue No.02 dated 01.04.2022)                                                     |
| 227.             | Pyroxenite / Oliflux/ Olivine sand/ Dunite | Potassium oxide (K <sub>2</sub> O)              | TPM/MSK/43/I (ICP-OES) (Issue No.04 dated 01.04.2022)                                           |
| 228.             | Pyroxenite / Oliflux/ Olivine sand/ Dunite | Silica (SiO <sub>2</sub> )                      | TPM/MSK/43/C (Issue No.02 dated 01.04.2022)                                                     |
| 229.             | Pyroxenite / Oliflux/ Olivine sand/ Dunite | Sodium Oxide (Na <sub>2</sub> O)                | TPM/MSK/43/H (ICP-OES) (Issue No.04 dated 01.04.2022)                                           |
| 230.             | Rock phospahte                             | Particle Size (- 0.15mm)                        | The Fertilizer (Control) Order 1985 (as amended upto July 2021), Schedule II, Part B, Method-20 |
| 231.             | Rock Phospahte                             | Total P <sub>2</sub> O <sub>5</sub>             | IS 11224:1985(A- 3.2), RA 2020                                                                  |
| 232.             | Rock Phosphate                             | Alumina (Al <sub>2</sub> O <sub>3</sub> )       | IS 11224:1985(A- 7), RA 2020                                                                    |
| 233.             | Rock Phosphate                             | Alumina (Al <sub>2</sub> O <sub>3</sub> )       | TPM/MSK/26/D2 (ICP-OES) (Issue No.04 dated 01.12.2022)                                          |

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## Centre for Laboratory Accreditation



### Scope of Accreditation

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**Accreditation Standard: ISO/IEC 17025:2017**

| Chemical Testing |                             |                                                |                                                                                                    |
|------------------|-----------------------------|------------------------------------------------|----------------------------------------------------------------------------------------------------|
| Sl. No.          | Product(s)/Material of Test | Specific Tests Performed                       | Test Method                                                                                        |
|                  | <b>Ores &amp; Minerals</b>  |                                                |                                                                                                    |
| 234.             | Rock Phosphate              | Calcium Oxide (CaO)                            | IS 9386:1976, RA 2019                                                                              |
| 235.             | Rock Phosphate              | Carbon Dioxide (CO <sub>2</sub> )              | TPM/MSK/26/H (Issue No.02 dated 01.04.2019)                                                        |
| 236.             | Rock Phosphate              | Chloride (Cl)                                  | IS 11224:1985 (A-10), RA 2020                                                                      |
| 237.             | Rock Phosphate              | Ferric Oxide (Fe <sub>2</sub> O <sub>3</sub> ) | IS 11224:1985(A- 7.2), RA 2020                                                                     |
| 238.             | Rock Phosphate              | Ferric Oxide (Fe <sub>2</sub> O <sub>3</sub> ) | TPM/MSK/26/D2 (ICP-OES) (Issue No.04 dated 01.12.2022)                                             |
| 239.             | Rock Phosphate              | Loss on Ignition (LOI)                         | IS 11224:1985 (A-11.1), RA 2020                                                                    |
| 240.             | Rock Phosphate              | Magnesium Oxide (MgO)                          | IS 11224:1985, RA 2020                                                                             |
| 241.             | Rock Phosphate              | Magnesium Oxide (MgO)                          | TPM/MSK/26/D2 (ICP-OES) (Issue No.04 dated 01.12.2022)                                             |
| 242.             | Rock Phosphate              | Moisture                                       | IS 11224:1985(A- 8), RA 2020                                                                       |
| 243.             | Rock Phosphate              | Moisture                                       | IS 11211:1984, IS 11224: 1985, RA 2020                                                             |
| 244.             | Rock Phosphate              | Organic Matter                                 | IS 11224:1985 (A-11.0), RA 2020                                                                    |
| 245.             | Rock Phosphate              | Particle Size (- 0.25mm+0.15mm)                | The Fertilizer (Control) Order 1985 (as amended upto July 2021), Schedule II, Part B, Method-20    |
| 246.             | Rock Phosphate              | Silica (SiO <sub>2</sub> )                     | IS 11224:1985(A-4), RA 2020                                                                        |
| 247.             | Rock Phosphate              | Total P <sub>2</sub> O <sub>5</sub>            | The Fertilizer (Control) Order 1985 (as amended upto July 2021), Schedule II, Part B, Method-4(ii) |
| 248.             | Rock Phosphate              | Total P <sub>2</sub> O <sub>5</sub>            | AOAC                                                                                               |
| 249.             | Quartz/Silica Sand          | Sodium Oxide (Na <sub>2</sub> O)               | TPM/MSK/25/F1 (ICP-OES) (Issue No.04 dated 01.12.2022)                                             |





# Quality And Accreditation Institute

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| Chemical Testing |                             |                                                |                                                        |
|------------------|-----------------------------|------------------------------------------------|--------------------------------------------------------|
| Sl. No.          | Product(s)/Material of Test | Specific Tests Performed                       | Test Method                                            |
|                  | <b>Ores &amp; Minerals</b>  |                                                |                                                        |
| 250.             | Quartz/Silica Sand          | Potassium Oxide (K <sub>2</sub> O)             | TPM/MSK/25/F1 (ICP-OES) (Issue No.04 dated 01.12.2022) |
| 251.             | Quartz/Silica Sand          | Alumina (Al <sub>2</sub> O <sub>3</sub> )      | TPM/MSK/25/F1 (ICP-OES) (Issue No.04 dated 01.12.2022) |
| 252.             | Quartz/Silica Sand          | Ferric Oxide (Fe <sub>2</sub> O <sub>3</sub> ) | TPM/MSK/25/F1 (ICP-OES) (Issue No.04 dated 01.12.2022) |
| 253.             | Quartz/Silica Sand          | Loss on Ignition (LOI)                         | IS1917 (Part 1):1992, RA 2022                          |
| 254.             | Quartz/Silica Sand          | Silica (SiO <sub>2</sub> )                     | IS :1917 (Part 3):1992, RA 2022                        |
| 255.             | Quartz/Silica Sand          | Titanium Dioxide (TiO <sub>2</sub> )           | TPM/MSK/25/F1 (ICP-OES) (Issue No.04 dated 01.12.2022) |
| 256.             | Zinc Ore/ Concentrate       | Arsenic (As)                                   | TPM/MSK/48/G (ICP-OES) (Issue No.03 dated 01.12.2022)  |
| 257.             | Zinc Ore/ Concentrate       | Copper (Cu)                                    | TPM/MSK/48/E(Issue No.02 dated 01.04.2022)             |
| 258.             | Zinc Ore/ Concentrate       | Copper (Cu)                                    | TPM/MSK/48/G (ICP-OES) (Issue No.03 dated 01.12.2022)  |
| 259.             | Zinc Ore/ Concentrate       | Gold (Au)                                      | ISO 10378:2016 (Fire Assay)                            |
| 260.             | Zinc Ore/ Concentrate       | Iron (Fe)                                      | TPM/MSK/48/D(Issue No.02 dated 01.04.2022)             |
| 261.             | Zinc Ore/ Concentrate       | Iron (Fe)                                      | TPM/MSK/48/G (ICP-OES) (Issue No.03 dated 01.12.2022)  |
| 262.             | Zinc Ore/ Concentrate       | Lead (Pb)                                      | TPM/MSK/48/C(Issue No.02 dated 01.04.2022)             |
| 263.             | Zinc Ore/ Concentrate       | Lead (Pb)                                      | TPM/MSK/48/G (ICP-OES) (Issue No.03 dated 01.12.2022)  |
| 264.             | Zinc Ore/ Concentrate       | Moisture                                       | ISO 10251:2006, RC 2020                                |

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# Quality And Accreditation Institute

## Centre for Laboratory Accreditation



### Scope of Accreditation

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| Chemical Testing |                                                        |                                                |                                                          |
|------------------|--------------------------------------------------------|------------------------------------------------|----------------------------------------------------------|
| Sl. No.          | Product(s)/Material of Test                            | Specific Tests Performed                       | Test Method                                              |
|                  | <b>Ores &amp; Minerals</b>                             |                                                |                                                          |
| 265.             | Zinc Ore/ Concentrate                                  | Phosphorus (P)                                 | TPM/MSK/48/G (ICP-OES) (Issue No.03 dated 01.12.2022)    |
| 266.             | Zinc Ore/ Concentrate                                  | Silica (SiO <sub>2</sub> )                     | TPM/MSK/48/B(Issue No.02 dated 01.04.2022)               |
| 267.             | Zinc Ore/ Concentrate                                  | Silver (Ag)                                    | TPM/MSK/48/I (ICP-OES) (Issue No.01 dated 01.12.2022)    |
| 268.             | Zinc Ore/ Concentrate                                  | Sulphur (S)                                    | TPM/MSK/48/F (Issue No.04 dated 01.04.2022)              |
| 269.             | Zinc Ore/ Concentrate                                  | Transportable Moisture Limit (TML)             | IMSBC Code, Appendix 2, 2022 Edition (Flow Table Method) |
| 270.             | Zinc Ore/ Concentrate                                  | Zinc (Zn)                                      | ISO 13658:2000, RC 2020                                  |
| 271.             | Zinc Ore/ Concentrate                                  | Zinc (Zn)                                      | TPM/MSK/48/A(Issue No.02 dated 01.04.2022)               |
| 272.             | Zinc Ore/ Concentrate                                  | Zinc (Zn)                                      | TPM/MSK/48/G (ICP-OES) (Issue No.03 dated 01.12.2022)    |
| 273.             | Aluminium Oxide/Fused Alumina/ Calcined Alumina Powder | Alumina (Al <sub>2</sub> O <sub>3</sub> )      | ISO 12315:2010, RC 2018                                  |
| 274.             | Aluminium Oxide/Fused Alumina/ Calcined Alumina Powder | Silica (SiO <sub>2</sub> )                     | TPM/MSK/65(ICP OES) (Issue No.01 dated 01.02.2023)       |
| 275.             | Aluminium Oxide/Fused Alumina/ Calcined Alumina Powder | Ferric Oxide (Fe <sub>2</sub> O <sub>3</sub> ) | TPM/MSK/65(ICP OES) (Issue No.01 dated 01.02.2023)       |
| 276.             | Aluminium Oxide/Fused Alumina/ Calcined Alumina Powder | Sodium Oxide (Na <sub>2</sub> O)               | TPM/MSK/65(ICP OES) (Issue No.01 dated 01.02.2023)       |

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# Quality And Accreditation Institute

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Valid from: 13 July 2023

Valid until: 12 July 2025

**Accreditation Standard: ISO/IEC 17025:2017**

| Chemical Testing |                                                        |                                   |                                                    |
|------------------|--------------------------------------------------------|-----------------------------------|----------------------------------------------------|
| Sl. No.          | Product(s)/Material of Test                            | Specific Tests Performed          | Test Method                                        |
|                  | <b>Ores &amp; Minerals</b>                             |                                   |                                                    |
| 277.             | Aluminium Oxide/Fused Alumina/ Calcined Alumina Powder | Potassium Oxide ( $K_2O$ )        | TPM/MSK/65(ICP OES) (Issue No.01 dated 01.02.2023) |
| 278.             | Aluminium Oxide/Fused Alumina/ Calcined Alumina Powder | Potassium Oxide ( $K_2O$ )        | TPM/MSK/65(ICP OES) (Issue No.01 dated 01.02.2023) |
| 279.             | Aluminium Oxide/Fused Alumina/ Calcined Alumina Powder | Titanium Dioxide ( $TiO_2$ )      | TPM/MSK/65(ICP OES) (Issue No.01 dated 01.02.2023) |
| 280.             | Aluminium Oxide/Fused Alumina/ Calcined Alumina Powder | Vanadium Pentoxide ( $V_2O_5$ )   | TPM/MSK/65(ICP OES) (Issue No.01 dated 01.02.2023) |
| 281.             | Aluminium Oxide/Fused Alumina/ Calcined Alumina Powder | Calcium Oxide ( $CaO$ )           | TPM/MSK/65(ICP OES) (Issue No.01 dated 01.02.2023) |
| 282.             | Aluminium Oxide/Fused Alumina/ Calcined Alumina Powder | Zinc Oxide ( $ZnO$ )              | TPM/MSK/65(ICP OES) (Issue No.01 dated 01.02.2023) |
| 283.             | Aluminium Oxide/Fused Alumina/ Calcined Alumina Powder | Zinc Oxide ( $ZnO$ )              | TPM/MSK/65(ICP OES) (Issue No.01 dated 01.02.2023) |
| 284.             | Aluminium Oxide/Fused Alumina/ Calcined Alumina Powder | Phosphorus Pentoxide ( $P_2O_5$ ) | TPM/MSK/65(ICP OES) (Issue No.01 dated 01.02.2023) |
| 285.             | Aluminium Oxide/Fused Alumina/ Calcined Alumina Powder | Lithium Oxide ( $LiO_2$ )         | TPM/MSK/65(ICP OES) (Issue No.01 dated 01.02.2023) |

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# Quality And Accreditation Institute

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| Chemical Testing |                                                        |                                                               |                                                    |
|------------------|--------------------------------------------------------|---------------------------------------------------------------|----------------------------------------------------|
| Sl. No.          | Product(s)/Material of Test                            | Specific Tests Performed                                      | Test Method                                        |
|                  | <b>Ores &amp; Minerals</b>                             |                                                               |                                                    |
| 286.             | Aluminium Oxide/Fused Alumina/ Calcined Alumina Powder | Galium Oxide ( $\text{Ga}_2\text{O}_3$ )                      | TPM/MSK/65(ICP OES) (Issue No.01 dated 01.02.2023) |
| 287.             | Aluminium Oxide/Fused Alumina/ Calcined Alumina Powder | Moisture ( $0^\circ\text{C} - 300^\circ\text{C}$ )            | ISO 806:2004, RC 2019                              |
| 288.             | Aluminium Oxide/Fused Alumina/ Calcined Alumina Powder | Loss on Ignition ( $300^\circ\text{C} - 1000^\circ\text{C}$ ) | ISO 806:2004, RC 2019                              |
| 289.             | Aluminium Oxide/Fused Alumina/ Calcined Alumina Powder | Untapped (Loose) Bulk Density                                 | ISO 18842:2015, RC 2022                            |
| 290.             | Aluminium Oxide/Fused Alumina/ Calcined Alumina Powder | Tapped Bulk Density                                           | ISO 18842:2015, RC 2022                            |



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| Chemical Testing |                             |                                                     |                                                       |
|------------------|-----------------------------|-----------------------------------------------------|-------------------------------------------------------|
| Sl. No.          | Product(s)/Material of Test | Specific Tests Performed                            | Test Method                                           |
|                  | <b>Solid Fuels</b>          |                                                     |                                                       |
| 1.               | Coal                        | Alumina (Al <sub>2</sub> O <sub>3</sub> )           | IS1355 : 1984, RA 2019                                |
| 2.               | Coal                        | Alumina (Al <sub>2</sub> O <sub>3</sub> )           | ASTM D 6349-21                                        |
| 3.               | Coal                        | Alumina (Al <sub>2</sub> O <sub>3</sub> )           | ASTM D4326-21                                         |
| 4.               | Coal                        | Antimony (Sb)                                       | ASTM D6357-21b                                        |
| 5.               | Coal                        | Arsenic (As)                                        | ASTM D6357-21b                                        |
| 6.               | Coal                        | Arsenic (As)                                        | TPM/MSK/44 (ICP-OES) (Issue No. 02 dated 02.01.2023)  |
| 7.               | Coal                        | Ash                                                 | IS 1350 (Part 1): 1984, RA 2019                       |
| 8.               | Coal                        | Ash                                                 | ASTM D3174- 12(2018) e1                               |
| 9.               | Coal                        | Ash                                                 | ISO 1171:2010, RC 2021                                |
| 10.              | Coal                        | Ash                                                 | ASTM D7582-15                                         |
| 11.              | Coal                        | Auxiliary Index of Thermal Stability (TS ) (-3 mm)  | GB/T 1573-2018                                        |
| 12.              | Coal                        | Auxiliary Index of Thermal Stability (TS) (3mm-6mm) | GB/T 1573-2018                                        |
| 13.              | Coal                        | Beryllium (Be)                                      | ASTM D6357-21b                                        |
| 14.              | Coal                        | Boron (B)                                           | TPM: MSK/56 (ICP-OES) (Issue No. 02 dated 02.01.2023) |
| 15.              | Coal                        | Cadmium (Cd)                                        | ASTM D6357-21B                                        |
| 16.              | Coal                        | Caking Index (CI)                                   | IS 1353(Part-3):2022                                  |
| 17.              | Coal                        | Caking Index (CI)                                   | ISO 15585:2019                                        |
| 18.              | Coal                        | Calcium Oxide (CaO)                                 | IS 1355: 1984, RA 2019                                |
| 19.              | Coal                        | Calcium Oxide (CaO)                                 | ASTM D6349-21                                         |
| 20.              | Coal                        | Calcium Oxide (CaO)                                 | ASTM D4326-21                                         |
| 21.              | Coal                        | Carbon (C)                                          | ASTM D5373 -21                                        |
| 22.              | Coal                        | Carbon (C)                                          | ISO 29541:2010, RC 2021                               |





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Valid from: 13 July 2023

Valid until: 12 July 2025

**Accreditation Standard: ISO/IEC 17025:2017**

| Chemical Testing |                             |                                                             |                                                   |
|------------------|-----------------------------|-------------------------------------------------------------|---------------------------------------------------|
| Sl. No.          | Product(s)/Material of Test | Specific Tests Performed                                    | Test Method                                       |
|                  | <b>Solid Fuels</b>          |                                                             |                                                   |
| 23.              | Coal                        | Chlorine (Cl)                                               | IS 1350 (Part 5): 2017                            |
| 24.              | Coal                        | Chlorine (Cl)                                               | ASTM D4208-19                                     |
| 25.              | Coal                        | Chromium (Cr)                                               | ASTM D6357-21B                                    |
| 26.              | Coal                        | Coal Reactivity                                             | TPM/MSK/58 (ISSUE no-01, dated 01.01.2020)        |
| 27.              | Coal                        | Cobalt (Co)                                                 | ASTM D6357-21b                                    |
| 28.              | Coal                        | Copper (Cu)                                                 | ASTM D6357-21b                                    |
| 29.              | Coal                        | Crucible Swelling Number (CSN)                              | IS 1353(Part -1): 2018                            |
| 30.              | Coal                        | Crucible Swelling Number (CSN)                              | ASTMD720/D720M- 22                                |
| 31.              | Coal                        | Equilibrated Moisture (at 40 °C and 60 % Relative Humidity) | IS 1350 (Part 1): 1984, RA 2019                   |
| 32.              | Coal                        | Ferric Oxide (Fe <sub>2</sub> O <sub>3</sub> )              | IS1355 :1984, RA 2019                             |
| 33.              | Coal                        | Ferric Oxide (Fe <sub>2</sub> O <sub>3</sub> )              | ASTM D 6349-21                                    |
| 34.              | Coal                        | Ferric Oxide (Fe <sub>2</sub> O <sub>3</sub> )              | ASTM D 4326-21                                    |
| 35.              | Coal                        | Fixed Carbon (FC)                                           | IS 1350 (Part 1): 1984, RA 2019                   |
| 36.              | Coal                        | Fixed Carbon (FC)                                           | ASTM D 3172-13(2021) e1                           |
| 37.              | Coal                        | Fixed Carbon (FC)                                           | ISO 17246: 2010, RC 2021                          |
| 38.              | Coal                        | Fixed Carbon (FC)                                           | ASTMD 7582-15                                     |
| 39.              | Coal                        | Fluorine (F)                                                | TPM/MSK/46A (ISE) (Issue No. 01 dated 02.01.2023) |
| 40.              | Coal                        | FT (Fluidity Temperature)                                   | ASTM D1857 / D1857M -18 (Oxidizing)               |
| 41.              | Coal                        | FT (Fluidity Temperature)                                   | ASTM D1857 / D1857M – 18 (Reducing)               |
| 42.              | Coal                        | Gross Calorific Value (GCV)                                 | IS 1350(Part-2):2022                              |
| 43.              | Coal                        | Gross Calorific Value (GCV)                                 | ISO 1928:2020                                     |

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# Quality And Accreditation Institute

## Centre for Laboratory Accreditation



### Scope of Accreditation

**Mitra S. K. Private Limited**

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**QAI/CLA/TL/2023/0015**

Valid from: 13 July 2023

Valid until: 12 July 2025

**Accreditation Standard: ISO/IEC 17025:2017**

| Chemical Testing |                             |                                      |                                       |
|------------------|-----------------------------|--------------------------------------|---------------------------------------|
| Sl. No.          | Product(s)/Material of Test | Specific Tests Performed             | Test Method                           |
|                  | <b>Solid Fuels</b>          |                                      |                                       |
| 44.              | Coal                        | Gross Calorific Value (GCV)          | ASTM D5865/D5865M-19                  |
| 45.              | Coal                        | Hardgrove Grindability Index (HGI)   | IS 4433 :1979, RA 2020                |
| 46.              | Coal                        | Hardgrove Grindability Index (HGI)   | ISO 5074:2015, RC 2021                |
| 47.              | Coal                        | Hardgrove Grindability Index (HGI)   | ASTM D409 / D409M -16                 |
| 48.              | Coal                        | HT (Hemispherical Temperature)       | ASTM D1857 / D1857M -18 (Reducing)    |
| 49.              | Coal                        | HT (Hemispherical Temperature)       | ASTM D1857 / D1857M – 18 (Oxidizing ) |
| 50.              | Coal                        | Hydrogen (H)                         | ASTM D5373- 21                        |
| 51.              | Coal                        | Hydrogen (H)                         | ISO 29541:2010, RC 2021               |
| 52.              | Coal                        | IT (Initial Deformation Temperature) | ASTM D1857 / D1857M - 18 (Reducing)   |
| 53.              | Coal                        | IT (Initial Deformation Temperature) | ASTM D1857 / D1857M-18(Oxidizing)     |
| 54.              | Coal                        | Lead (Pb)                            | ASTM D6357-21b                        |
| 55.              | Coal                        | Magnesium Oxide (MgO)                | IS 1355 : 1984, RA 2019               |
| 56.              | Coal                        | Magnesium Oxide (MgO)                | ASTM D 4326-21                        |
| 57.              | Coal                        | Magnesium Oxide (MgO)                | ASTM D 6349-21                        |
| 58.              | Coal                        | Manganese (Mn)                       | ASTM D6357-21b                        |
| 59.              | Coal                        | Manganese Oxide (MnO)                | IS 1355 :1984, RA 2019                |
| 60.              | Coal                        | Manganese Oxide (MnO)                | ASTM D 6349-21                        |
| 61.              | Coal                        | Manganese Oxide (MnO)                | ASTM D 4326-21                        |
| 62.              | Coal                        | Moisture                             | IS 1350 (Part 1): 1984, RA 2019       |
| 63.              | Coal                        | Moisture                             | ASTM D3173 / D3173M-17a               |
| 64.              | Coal                        | Moisture                             | ISO 11722:2013, RC 2018               |
| 65.              | Coal                        | Moisture                             | ASTM D7582 -15                        |

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## Centre for Laboratory Accreditation



### Scope of Accreditation

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**Accreditation Standard: ISO/IEC 17025:2017**

| Chemical Testing |                             |                                                       |                                                         |
|------------------|-----------------------------|-------------------------------------------------------|---------------------------------------------------------|
| Sl. No.          | Product(s)/Material of Test | Specific Tests Performed                              | Test Method                                             |
|                  | <b>Solid Fuels</b>          |                                                       |                                                         |
| 66.              | Coal                        | Molybdenum (Mo)                                       | ASTM D6357-21b                                          |
| 67.              | Coal                        | Net Calorific Value (DB)                              | ASTM D5865/D5865M-19                                    |
| 68.              | Coal                        | Net Calorific Value (ADB)                             | ISO 1928:2020                                           |
| 69.              | Coal                        | Net Calorific Value (ADB)                             | ASTM D5865/D5865M-19                                    |
| 70.              | Coal                        | Net Calorific Value (ARB)                             | ASTM D5865/D5865M-19                                    |
| 71.              | Coal                        | Net Calorific Value (ARB)                             | ISO 1928: 2020                                          |
| 72.              | Coal                        | Net Calorific Value (DB)                              | ISO 1928:2020                                           |
| 73.              | Coal                        | Nickel (Ni)                                           | ASTM D6357-21b                                          |
| 74.              | Coal                        | Nitrogen (N)                                          | ASTM D5373- 21                                          |
| 75.              | Coal                        | Nitrogen (N)                                          | ISO 29541:2010, RC 2021                                 |
| 76.              | Coal                        | Organic Sulphur                                       | IS 15438 :2004, RA 2020                                 |
| 77.              | Coal                        | Oxygen (O)                                            | ISO 1170: 2020                                          |
| 78.              | Coal                        | Oxygen(O)                                             | ASTM D3176-15                                           |
| 79.              | Coal                        | Phosphorus (P)                                        | ISO 622: 2016 RC 2022                                   |
| 80.              | Coal                        | Phosphorus (P)                                        | TPM/MSK/6/M/6 (ICP-OES) (Issue No. 04 dated 02.01.2023) |
| 81.              | Coal                        | Phosphorus Pentoxide (P <sub>2</sub> O <sub>5</sub> ) | IS 1355: 1984, RA 2019                                  |
| 82.              | Coal                        | Phosphorus Pentoxide (P <sub>2</sub> O <sub>5</sub> ) | ASTM D6349-21                                           |
| 83.              | Coal                        | Phosphorus Pentoxide (P <sub>2</sub> O <sub>5</sub> ) | ASTM D4326-21                                           |
| 84.              | Coal                        | Phosphorus (P)                                        | IS 1350(Part-5):2017                                    |
| 85.              | Coal                        | Potassium Oxide (K <sub>2</sub> O)                    | IS 1355: 1984, RA 2019                                  |
| 86.              | Coal                        | Potassium Oxide (K <sub>2</sub> O)                    | ASTM D6349-21                                           |
| 87.              | Coal                        | Potassium Oxide (K <sub>2</sub> O)                    | ASTM D4326-21                                           |
| 88.              | Coal                        | Pyritic Sulphur                                       | IS 15438 :2004, RA 2020                                 |
| 89.              | Coal                        | Selenium (Se)                                         | TPM/MSK/44 (ICP-OES) (Issue No. 02 dated 02.01.2023)    |

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## Centre for Laboratory Accreditation



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| Chemical Testing |                             |                                     |                                         |
|------------------|-----------------------------|-------------------------------------|-----------------------------------------|
| Sl. No.          | Product(s)/Material of Test | Specific Tests Performed            | Test Method                             |
|                  | <b>Solid Fuels</b>          |                                     |                                         |
| 90.              | Coal                        | Silica (SiO <sub>2</sub> )          | IS1355 :1984, RA 2019                   |
| 91.              | Coal                        | Silica (SiO <sub>2</sub> )          | ASTM D 6349-21                          |
| 92.              | Coal                        | Silica (SiO <sub>2</sub> )          | ASTM D 4326-21                          |
| 93.              | Coal                        | Sodium Oxide (Na <sub>2</sub> O)    | IS 1355: 1984, RA 2019                  |
| 94.              | Coal                        | Sodium Oxide (Na <sub>2</sub> O)    | ASTM D6349-21                           |
| 95.              | Coal                        | Sodium Oxide (Na <sub>2</sub> O)    | ASTM D4326-21                           |
| 96.              | Coal                        | ST (Spherical Temperature)          | ASTM D1857 / D1857M – 18<br>(Oxidizing) |
| 97.              | Coal                        | ST (Spherical Temperature)          | ASTM D1857 / D1857M – 18<br>(Reducing)  |
| 98.              | Coal                        | Sulphate Sulphur                    | IS 15438 :2004, RA 2020                 |
| 99.              | Coal                        | Sulphur (S)                         | ASTM D4239 -18e1                        |
| 100.             | Coal                        | Sulphur (S)                         | ISO 19579:2006, RC 2018                 |
| 101.             | Coal                        | Sulphur Trioxide (SO <sub>3</sub> ) | IS 1355 : 1984, RA 2019                 |
| 102.             | Coal                        | Sulphur Trioxide (SO <sub>3</sub> ) | ASTM D6349-21                           |
| 103.             | Coal                        | Sulphur Trioxide (SO <sub>3</sub> ) | ASTM D4326-21                           |
| 104.             | Coal                        | Thermal stability Index (TS) (+6mm) | GB/T 1573-2018                          |
| 105.             | Coal                        | Titania (TiO <sub>2</sub> )         | IS 1355 : 1984, RA 2019                 |
| 106.             | Coal                        | Titania (TiO <sub>2</sub> )         | ASTM D6349-21                           |
| 107.             | Coal                        | Titania (TiO <sub>2</sub> )         | ASTM D4326-21                           |
| 108.             | Coal                        | Total Moisture                      | IS 1350 (Part 1): 1984, RA 2019         |
| 109.             | Coal                        | Total Moisture                      | ASTM D3302 / D3302M -22                 |
| 110.             | Coal                        | Total Moisture                      | ISO 589: 2008, RC 2018                  |
| 111.             | Coal                        | Total Sulphur (S)                   | IS:1350 (Part 3): 2022                  |
| 112.             | Coal                        | Total Sulphur (S)                   | ISO 334:2020                            |



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| Chemical Testing |                              |                                           |                                                                  |
|------------------|------------------------------|-------------------------------------------|------------------------------------------------------------------|
| Sl. No.          | Product(s)/Material of Test  | Specific Tests Performed                  | Test Method                                                      |
|                  | <b>Solid Fuels</b>           |                                           |                                                                  |
| 113.             | Coal                         | Transportable Moisture Limit (TML)        | IMSBC Code, Appendix 2, 2022 (Modified Proctor Fagerberg Method) |
| 114.             | Coal                         | Vanadium (V)                              | ASTM D6357-21b                                                   |
| 115.             | Coal                         | Volatile Matter (VM)                      | IS 1350 (Part 1): 1984, RA 2019                                  |
| 116.             | Coal                         | Volatile Matter (VM)                      | ASTM D3175-20                                                    |
| 117.             | Coal                         | Volatile Matter (VM)                      | ISO 562:2010, RC 2021                                            |
| 118.             | Coal                         | Volatile Matter (VM)                      | ASTMD7582-15                                                     |
| 119.             | Coal                         | Zinc (Zn)                                 | ASTM D6357-21b                                                   |
| 120.             | Coal Ash/Combustion Residue  | Mercury (Hg)                              | TPM/MSK/54 (ICP-OES) (Issue No. 02 dated 02.01.2023)             |
| 121.             | Coal Ash/ Combustion Residue | Mercury (Hg)                              | TPM/MSK/54A (ICP-OES) (Issue No. 02 dated 02.01.2023)            |
| 122.             | Coal                         | Fixed Carbon (FC)                         | ISO 17246 : 2010, RC 2021                                        |
| 123.             | Coal                         | Silica (SiO <sub>2</sub> )                | ASTM D6349-21                                                    |
| 124.             | Coke                         | Alumina(Al <sub>2</sub> O <sub>3</sub> )  | IS1355: 1984, RA 2019                                            |
| 125.             | Coke                         | Alumina (Al <sub>2</sub> O <sub>3</sub> ) | ASTM D6349-21                                                    |
| 126.             | Coke                         | Alumina (Al <sub>2</sub> O <sub>3</sub> ) | ASTM D4326-21                                                    |
| 127.             | Coke                         | Antimony (Sb)                             | ASTM D6357-21b                                                   |
| 128.             | Coke                         | Arsenic (As)                              | TPM/MSK/44(ICP-OES) (Issue No. 02 dated 02.01.2023)              |
| 129.             | Coke                         | Arsenic (As)                              | ASTM D6357-21b                                                   |
| 130.             | Coke                         | Ash                                       | IS 1350 (Part 1):1984, RA 2019                                   |
| 131.             | Coke                         | Ash                                       | ASTM D3174- 12(2018) e1                                          |
| 132.             | Coke                         | Ash                                       | ISO 1171:2010, RC 2021                                           |
| 133.             | Coke                         | Ash                                       | ASTMD7582 -15                                                    |

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**QAI/CLA/TL/2023/0015**

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**Accreditation Standard: ISO/IEC 17025:2017**

| Chemical Testing |                             |                                                |                                                       |
|------------------|-----------------------------|------------------------------------------------|-------------------------------------------------------|
| Sl. No.          | Product(s)/Material of Test | Specific Tests Performed                       | Test Method                                           |
|                  | <b>Solid Fuels</b>          |                                                |                                                       |
| 134.             | Coke                        | Beryllium (Be)                                 | ASTM D6357-21b                                        |
| 135.             | Coke                        | Boron (B)                                      | TPM: MSK/56 (ICP-OES) (Issue No. 02 dated 02.01.2023) |
| 136.             | Coke                        | Cadmium (Cd)                                   | ASTM D6357-21b                                        |
| 137.             | Coke                        | Calcium Oxide (CaO)                            | ASTM D6349-21                                         |
| 138.             | Coke                        | Calcium Oxide (CaO)                            | ASTM D4326-21                                         |
| 139.             | Coke                        | Carbon (C)                                     | ASTM D5373- 21                                        |
| 140.             | Coke                        | Carbon (C)                                     | ISO 29541:2010, RC 2021                               |
| 141.             | Coke                        | Chromium (Cr)                                  | ASTM D6357-21b                                        |
| 142.             | Coke                        | Cobalt (Co)                                    | ASTM D6357-21b                                        |
| 143.             | Coke                        | Coke Reactivity Index (CRI)                    | ISO 18894:2018                                        |
| 144.             | Coke                        | Coke Reactivity Index (CRI)                    | ASTM D5341 / D5341M - 19                              |
| 145.             | Coke                        | Coke Reactivity Index (CRI)                    | IS 4023:1991, RA 2022                                 |
| 146.             | Coke                        | Coke Strength after Reaction (CSR)             | IS 4023:1991, RA 2022                                 |
| 147.             | Coke                        | Coke Strength after Reaction (CSR)             | ISO 18894:2018                                        |
| 148.             | Coke                        | Coke Strength after Reaction (CSR)             | ASTM D5341 / D5341M - 19                              |
| 149.             | Coke                        | Copper (Cu)                                    | ASTM D6357-21b                                        |
| 150.             | Coke                        | Ferric Oxide (Fe <sub>2</sub> O <sub>3</sub> ) | IS1355 :1984, RA 2019                                 |
| 151.             | Coke                        | Ferric Oxide (Fe <sub>2</sub> O <sub>3</sub> ) | ASTM D6349-21                                         |
| 152.             | Coke                        | Ferric Oxide (Fe <sub>2</sub> O <sub>3</sub> ) | ASTM D4326-21                                         |
| 153.             | Coke                        | Fixed Carbon                                   | ASTMD7582-15                                          |
| 154.             | Coke                        | Fixed Carbon                                   | IS 1350 (Part 1): 1984, RA 2019                       |
| 155.             | Coke                        | Fixed Carbon                                   | ASTM D 3172-13(2021) e1                               |
| 156.             | Coke                        | FT (Fluidity Temperature)                      | ASTM D157 / D1857M - 18 (Reducing)                    |

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| Chemical Testing |                             |                                      |                                      |
|------------------|-----------------------------|--------------------------------------|--------------------------------------|
| Sl. No.          | Product(s)/Material of Test | Specific Tests Performed             | Test Method                          |
|                  | <b>Solid Fuels</b>          |                                      |                                      |
| 157.             | Coke                        | FT (Fluidity Temperature)            | ASTM D1857 / D1857M - 18 (Oxidizing) |
| 158.             | Coke                        | Gross Calorific Value in Coke (GCV)  | IS 1350 (Part 2):2022                |
| 159.             | Coke                        | Gross Calorific Value in Coke (GCV)  | ASTM D5865/D5865M-19                 |
| 160.             | Coke                        | Gross Calorific Value in Coke (GCV)  | ISO 1928:2020                        |
| 161.             | Coke                        | HT (Hemispherical Temperature)       | ASTM D187 / D1857M - 18 (Oxidizing)  |
| 162.             | Coke                        | HT (Hemispherical Temperature)       | ASTM D1857 / D1857M - 18 (Reducing)  |
| 163.             | Coke                        | Hydrogen (H)                         | ASTM D5373- 21                       |
| 164.             | Coke                        | Hydrogen (H)                         | ISO 29541:2010, RC 2021              |
| 165.             | Coke                        | IT (Initial Deformation Temperature) | ASTM D1857 / D1857M - 18 (Oxidizing) |
| 166.             | Coke                        | IT (Initial Deformation Temperature) | ASTM D1857 / D1857M - 18 (Reducing)  |
| 167.             | Coke                        | Lead (Pb)                            | ASTM D6357-21b                       |
| 168.             | Coke                        | Magnesium Oxide (MgO)                | IS 1355: 1984, RA 2019               |
| 169.             | Coke                        | Magnesium Oxide (MgO)                | ASTM D6349-21                        |
| 170.             | Coke                        | Magnesium Oxide (MgO)                | ASTM D4326-21                        |
| 171.             | Coke                        | Manganese (Mn)                       | ASTM D6357-21b                       |
| 172.             | Coke                        | Manganese Oxide (MnO)                | IS 1355 :1984, RA 2019               |
| 173.             | Coke                        | Manganese Oxide (MnO)                | ASTM D6349-21                        |
| 174.             | Coke                        | Manganese Oxide (MnO)                | ASTM D4326-21                        |
| 175.             | Coke                        | Moisture                             | IS 1350 (Part 1): 1984, RA 2019      |
| 176.             | Coke                        | Moisture                             | ISO 687:2010, RC 2021                |
| 177.             | Coke                        | Moisture                             | ASTM D3173 /D3173M -17a              |

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| Chemical Testing |                             |                                                       |                                                      |
|------------------|-----------------------------|-------------------------------------------------------|------------------------------------------------------|
| Sl. No.          | Product(s)/Material of Test | Specific Tests Performed                              | Test Method                                          |
|                  | <b>Solid Fuels</b>          |                                                       |                                                      |
| 178.             | Coke                        | Moisture                                              | ASTMD 7582 -15                                       |
| 179.             | Coke                        | Molybdenum (Mo)                                       | ASTM D6357-21b                                       |
| 180.             | Coke                        | Net Calorific Value (ARB)                             | ISO 1928:2020                                        |
| 181.             | Coke                        | Net Calorific Value (ADB)                             | ISO 1928:2020                                        |
| 182.             | Coke                        | Net Calorific Value (ADB)                             | ASTM D5865/D5865M-19                                 |
| 183.             | Coke                        | Net Calorific Value (ARB)                             | ASTM D5865/D5865M-19                                 |
| 184.             | Coke                        | Net Calorific Value (DB)                              | ASTM D5865/D5865M-19                                 |
| 185.             | Coke                        | Net Calorific Value (DB)                              | ISO 1928:2020                                        |
| 186.             | Coke                        | Nickel (Ni)                                           | ASTM D6357-21b                                       |
| 187.             | Coke                        | Nitrogen (N)                                          | ASTM D5373- 21                                       |
| 188.             | Coke                        | Nitrogen (N)                                          | ISO 29541:2010, RC 2021                              |
| 189.             | Coke                        | Oxygen                                                | ASTM D3176-15                                        |
| 190.             | Coke                        | Oxygen                                                | ISO 1170:2020                                        |
| 191.             | Coke                        | Phosphorus (P)                                        | IS:1350 (Part 5): 2017                               |
| 192.             | Coke                        | Phosphorus (P)                                        | ISO 622: 2016 RC 2022                                |
| 193.             | Coke                        | Phosphorus (P)                                        | TPM/MSK/6/M/6 (Issue No 04 dated 02.01.2023)         |
| 194.             | Coke                        | Phosphorus (P)                                        | IS 1350: Part 5 : 2017                               |
| 195.             | Coke                        | Phosphorus Pentoxide (P <sub>2</sub> O <sub>5</sub> ) | IS 1355: 1984, RA 2019                               |
| 196.             | Coke                        | Phosphorus Pentoxide (P <sub>2</sub> O <sub>5</sub> ) | ASTM D6349-21                                        |
| 197.             | Coke                        | Phosphorus Pentoxide (P <sub>2</sub> O <sub>5</sub> ) | ASTM D4326-21                                        |
| 198.             | Coke                        | Potassium Oxide (K <sub>2</sub> O)                    | ASTM D4326-21                                        |
| 199.             | Coke                        | Potassium Oxide (K <sub>2</sub> O)                    | ASTM D6349-21                                        |
| 200.             | Coke                        | Potassium Oxide (K <sub>2</sub> O)                    | ASTM D4326-21                                        |
| 201.             | Coke                        | Selenium (Se)                                         | TPM/MSK/44 (ICP-OES) (Issue No. 02 dated 02.01.2023) |

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**Accreditation Standard: ISO/IEC 17025:2017**

| Chemical Testing |                             |                                     |                                         |
|------------------|-----------------------------|-------------------------------------|-----------------------------------------|
| Sl. No.          | Product(s)/Material of Test | Specific Tests Performed            | Test Method                             |
|                  | <b>Solid Fuels</b>          |                                     |                                         |
| 202.             | Coke                        | Silica (SiO <sub>2</sub> )          | IS 1355 :1984, RA 2019                  |
| 203.             | Coke                        | Silica (SiO <sub>2</sub> )          | ASTM D4326-21                           |
| 204.             | Coke                        | Sodium Oxide (Na <sub>2</sub> O)    | IS1355 : 1984, RA 2019                  |
| 205.             | Coke                        | Sodium Oxide (Na <sub>2</sub> O)    | ASTM D6349-21                           |
| 206.             | Coke                        | Sodium Oxide (Na <sub>2</sub> O)    | ASTM D4326-21                           |
| 207.             | Coke                        | ST (Spherical Temperature)          | ASTM D1857 / D1857M - 18<br>(Oxidizing) |
| 208.             | Coke                        | ST (Spherical Temperature)          | ASTM D1857 / D1857M - 18<br>(Reducing)  |
| 209.             | Coke                        | Sulphur                             | ASTM D4239 -18e1                        |
| 210.             | Coke                        | Sulphur                             | ISO 19579:2006, RC 2018                 |
| 211.             | Coke                        | Sulphur Trioxide (SO <sub>3</sub> ) | IS 1355: 1984, RA 2019                  |
| 212.             | Coke                        | Sulphur Trioxide (SO <sub>3</sub> ) | ASTM D6349-21                           |
| 213.             | Coke                        | Sulphur Trioxide (SO <sub>3</sub> ) | ASTM D4326-21                           |
| 214.             | Coke                        | Titania (TiO <sub>2</sub> )         | IS 1355: 1984, RA 2019                  |
| 215.             | Coke                        | Titania (TiO <sub>2</sub> )         | ASTM D6349-21                           |
| 216.             | Coke                        | Titania (TiO <sub>2</sub> )         | ASTM D4326-21                           |
| 217.             | Coke                        | Total Moisture                      | IS 1350 (Part 1): 1984, RA 2019         |
| 218.             | Coke                        | Total Moisture                      | ISO 579:2013, RC 2018                   |
| 219.             | Coke                        | Total Moisture                      | ASTM D3302 / D3302M-22                  |
| 220.             | Coke                        | Total Sulphur (S)                   | IS:1350 (Part 3): 2022                  |
| 221.             | Coke                        | Vanadium (V)                        | ASTM D6357-21b                          |
| 222.             | Coke                        | Volatile Matter (VM)                | IS 1350 (Part 1): 1984, RA 2019         |
| 223.             | Coke                        | Volatile Matter (VM)                | ASTM D3175- 20                          |
| 224.             | Coke                        | Volatile Matter (VM)                | ISO 562:2010, RC 2021                   |
| 225.             | Coke                        | Volatile Matter (VM)                | ASTMD7582-15                            |

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# Quality And Accreditation Institute

## Centre for Laboratory Accreditation



### Scope of Accreditation

**Mitra S. K. Private Limited**

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**QAI/CLA/TL/2023/0015**

Valid from: 13 July 2023

Valid until: 12 July 2025

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| Chemical Testing |                             |                                       |                                          |
|------------------|-----------------------------|---------------------------------------|------------------------------------------|
| Sl. No.          | Product(s)/Material of Test | Specific Tests Performed              | Test Method                              |
|                  | <b>Solid Fuels</b>          |                                       |                                          |
| 226.             | Coke                        | Zinc (Zn)                             | ASTM D6354-21b                           |
| 227.             | Coke                        | Calcium Oxide (CaO)                   | IS 1355: 1984, RA 2019                   |
| 228.             | Graphite                    | Ash                                   | IS 11321:1985, RA 2019                   |
| 229.             | Graphite                    | Fixed Carbon                          | IS 11321:1985, RA 2019                   |
| 230.             | Graphite                    | Loss on Heating                       | IS 495:1967, RA 2018                     |
| 231.             | Graphite                    | Moisture                              | IS 11321:1985, RA 2019                   |
| 232.             | Graphite                    | Non Graphitic Carbon                  | IS 495:1967, RA 2018                     |
| 233.             | Graphite                    | Petroleum Ether Soluble Matter        | IS 495:1967, RA 2018                     |
| 234.             | Graphite                    | Sulphur                               | IS 11321:1985, RA 2019                   |
| 235.             | Graphite                    | Volatile Matter (VM)                  | IS 11321:1985, RA 2019                   |
| 236.             | Graphite                    | Water Soluble Matter                  | IS 495:1967, RA 2018                     |
| 237.             | Lignite                     | Ash                                   | IS 5062 (Part 2): 1969 RA 2020           |
| 238.             | Lignite                     | Fixed Carbon (FC)                     | IS 1350(Part 1): 1984 RA 2019            |
| 239.             | Lignite                     | Gross Calorific Value (GCV)           | IS 1350(Part 2): 2022                    |
| 240.             | Lignite                     | Moisture                              | IS 5062 (Part-1):1969 RA 2020            |
| 241.             | Lignite                     | Volatile Matter (VM)                  | IS 1350 (Part 1): 1984 RA 2019           |
| 242.             | Petroleum Coke              | Moisture (As received)/Gross Moisture | ASTM D4931 - 06 (2017)                   |
| 243.             | Petroleum Coke              | Ash                                   | IS:1448 (Part 126) 1988, RA 2021         |
| 244.             | Petroleum Coke              | Ash                                   | ASTM D4422-19                            |
| 245.             | Petroleum Coke              | Carbon (C)                            | TPM/MSK/45(Issue No.01 dated 05.01.2020) |
| 246.             | Petroleum Coke              | Fixed Carbon                          | IS 1350 (Part 1): 1984, RA 2019          |
| 247.             | Petroleum Coke              | Fixed Carbon                          | ASTM D 3172-13(2021) e1                  |
| 248.             | Petroleum Coke              | Gross Calorific Value                 | IS 1350 (Part 2): 2022                   |
| 249.             | Petroleum Coke              | Gross Calorific Value                 | ASTM D5865/D5865M-19                     |

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| Chemical Testing |                             |                                    |                                           |
|------------------|-----------------------------|------------------------------------|-------------------------------------------|
| Sl. No.          | Product(s)/Material of Test | Specific Tests Performed           | Test Method                               |
|                  | <b>Solid Fuels</b>          |                                    |                                           |
| 250.             | Petroleum Coke              | Hardgrove Grindability Index (HGI) | ASTM D 5003-19                            |
| 251.             | Petroleum Coke              | Hydrogen (H)                       | TPM/MSK/45 (Issue No.01 dated 05.01.2020) |
| 252.             | Petroleum Coke              | Moisture                           | IS 1448 (Part 132): 2018                  |
| 253.             | Petroleum Coke              | Nitrogen (N)                       | TPM/MSK/45 (Issue No.01 dated 05.01.2020) |
| 254.             | Petroleum Coke              | Oxygen (O)                         | TPM/MSK/45 (Issue No.01 dated 05.01.2020) |
| 255.             | Petroleum Coke              | Sulphur                            | TPM/MSK/45 (Issue No.01 dated 05.01.2020) |
| 256.             | Petroleum Coke              | Sulphur                            | IS 1448 (Part 33) :2021                   |
| 257.             | Petroleum Coke              | Volatile Matter (VM)               | IS 1448: (Part 134): 2018                 |
| 258.             | Petroleum Coke              | Volatile Matter (VM)               | ASTM D6374 - 22                           |
| 259.             | Solid Biofuel               | Ash                                | IS 17653:2021                             |
| 260.             | Solid Biofuel               | Ash                                | ISO 18122:2022                            |
| 261.             | Solid Biofuel               | Carbon (C)                         | IS 17832:2022                             |
| 262.             | Solid Biofuel               | Carbon (C)                         | ISO 16948 :2015, RC 2020                  |
| 263.             | Solid Biofuel               | Gross Calorific Value              | ISO 18125: 2017                           |
| 264.             | Solid Biofuel               | Gross Calorific Value (GCV)        | IS 17654:2021                             |
| 265.             | Solid Biofuel               | Hydrogen (H)                       | IS 17832:2022                             |
| 266.             | Solid Biofuel               | Hydrogen (H)                       | ISO 16984:2015, RC 2020                   |
| 267.             | Solid Biofuel               | Moisture                           | ISO 18134-3:2015                          |
| 268.             | Solid Biofuel               | Moisture                           | IS 17655(Part- 3):2021                    |
| 269.             | Solid Biofuel               | Nitrogen (N)                       | IS 17832 :2022                            |
| 270.             | Solid Biofuel               | Nitrogen (N)                       | ISO 16984 :2015, RC 2020                  |
| 271.             | Solid Biofuel               | Sulphur (S)                        | IS 17833: 2022                            |

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| Chemical Testing |                                      |                          |                        |
|------------------|--------------------------------------|--------------------------|------------------------|
| Sl. No.          | Product(s)/Material of Test          | Specific Tests Performed | Test Method            |
|                  | <b>Solid Fuels</b>                   |                          |                        |
| 272.             | Solid Biofuel                        | Sulphur (S)              | ISO 16994: 2016        |
| 273.             | Solid Biofuel                        | Total Moisture           | ISO 18134-2:2017       |
| 274.             | Solid Biofuel                        | Total Moisture           | IS 17655(Part- 2):2021 |
| 275.             | Solid Biofuel                        | Volatile Matter (VM)     | IS 17844:2022          |
| 276.             | Solid Biofuel                        | Volatile Matter (VM)     | ISO 18123: 2023        |
| 277.             | Solid Biofuel /Biomass               | Ash                      | ASTM E1755- 01(2020)   |
| 278.             | Solid Biofuel/ Particulate Wood Fuel | Ash                      | ASTM E 1534- 93(2019)  |
| 279.             | Solid Biofuel/ Particulate Wood Fuel | Moisture                 | ASTM E 871- 82(2019)   |
| 280.             | Solid Biofuel/ Particulate Wood Fuel | Volatile Matter (VM)     | ASTM E872- 82(2019)    |

