National Accreditation Board for Testing and Calibration Laboratories

# CERTIFICATE OF ACCREDITATION

## SCIENTIFIC AND INDUSTRIAL TESTING AND RESEARCH CENTRE

**has been assessed and accredited in accordance with the standard**

## ISO/IEC 17025:2017

## "General Requirements for the Competence of Testing & Calibration Laboratories"

**for its facilities at**

**83 & 84 AVARAMPALAYAM ROAD, K.R.PURAM POST, COIMBATORE, TAMIL NADU, INDIA**

**in the field of**

## TESTING

**Certificate Number:** TC-5324

**Issue Date:** 31/03/2023 **Valid Until:** 30/03/2025

**This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the relevant requirements of NABL.**
**(To see the scope of accreditation of this laboratory, you may also visit NABL website www.nabl-india.org)**

**Name of Legal Identity :** SCIENTIFIC AND INDUSTRIAL TESTING AND RESEARCH CENTRE

**Signed for and on behalf of NABL**

N. Venkateswaran
Chief Executive Officer

# SCOPE OF ACCREDITATION

**Laboratory Name :** SCIENTIFIC AND INDUSTRIAL TESTING AND RESEARCH CENTRE, 83 & 84 AVARAMPALAYAM ROAD, K.R.PURAM POST, COIMBATORE, TAMIL NADU, INDIA

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

**Certificate Number** TC-5324 **Page No** 24 of 93

**Validity** 31/03/2023 to 30/03/2025 **Last Amended on** 20/06/2023

| S.No | Discipline / Group | Materials or Products tested | Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed | Test Method Specification against which tests are performed and / or the techniques / equipment used |
|---|---|---|---|---|
| 422 | CHEMICAL- WATER | Packaged Natural Mineral Water | Phenolic Compound (as C6H5OH) | IS 13428:2005,Table 2,Clause 6.2,S.No xx,IS 3025 (Part 43/Sec 1) |
| 423 | CHEMICAL- WATER | Packaged Natural Mineral Water | Sodium (as Na) | IS 13428:2005,Table 2,Clause 6.2,S.No xvi,IS 3025 (Part 45) |
| 424 | CHEMICAL- WATER | Packaged Natural Mineral Water | Sulphate(as SO4) | IS 13428:2005,Table 2,Clause 6.2,S.No xiii,IS 3025 (Part 24/Sec 1) |
| 425 | CHEMICAL- WATER | Packaged Natural Mineral Water | Sulphide (as H2S) | IS 13428:2005,Table 2,Clause 6.2,S.No iii,IS 3025 (Part 29) |
| 426 | CHEMICAL- WATER | Packaged Natural Mineral Water | Taste | IS 13428:2005,Table 1,Clause 6.2,S.No iii,IS 3025 (Part 8) |
| 427 | CHEMICAL- WATER | Packaged Natural Mineral Water | Total Dissolved Solids | IS 13428:2005,Table 1,Clause 6.2,S.No v,IS 3025 (Part 16) |
| 428 | CHEMICAL- WATER | Packaged Natural Mineral Water | Turbidity | IS 13428:2005,Table 1,Clause 6.2,S.No iv,IS 3025 (Part 10) |
| 429 | CHEMICAL- WATER | Packaged Natural Mineral Water | Zinc(as Zn) | IS 3025 (Part 49) |
| 430 | ELECTRICAL- CABLES & WIRES | Cross linked Polyethylene insulated thermoplastic sheathed cables for working voltages up to & including 1100 volts | Physical test for sheath - Heat shock test | IS 7098 (Pt.1) : 1988,Cl.15.1d vi,IS 10810 (Pt.14) |
| 431 | ELECTRICAL- CABLES & WIRES | Cross linked Polyethylene insulated thermoplastic sheathed cables for working voltages up to & including 1100 volts | Physical test for sheath-Ageing in air oven | IS 7098 (Pt.1) : 1988,Cl.15.1e ii) ,IS 10810 (Pt.11) |
| 432 | ELECTRICAL- CABLES & WIRES | Cross linked Polyethylene insulated thermoplastic sheathed cables for working voltages up to & including 1100 volts | Physical test for sheath-Loss of mass in air oven | IS 7098 (Pt.1) : 1988,Cl.15.1e iii) ,IS 10810 (Pt.10) |
| 433 | ELECTRICAL- CABLES & WIRES | Cross linked Polyethylene insulated thermoplastic sheathed cables for working voltages up to & including 1100 volts | Test on Conductor - Tensile test (For Aluminum) | IS 7098 (Pt.1) : 1988,Cl.15.1a ii, IS 10810 (Pt.2) |
| 434 | ELECTRICAL- CABLES & WIRES | Cross linked Polyethylene insulated thermoplastic sheathed cables for working voltages up to & including 1100 volts | Test on Conductor - Test for Thickness of insulation | IS 7098 (Pt.1) : 1988,Test Cl.15.1c), IS 10810 (Pt.6) |
| 435 | ELECTRICAL- CABLES & WIRES | Cross linked Polyethylene insulated thermoplastic sheathed cables for working voltages up to & including 1100 volts | Test on Conductor - Test for Thickness of sheath | IS 7098 (Pt.1) : 1988,Cl.15.1c) , IS 10810 (Pt.6) |
| 436 | ELECTRICAL- CABLES & WIRES | Cross linked Polyethylene insulated thermoplastic sheathed cables for working voltages upto & including 1100 volts | Physical test for sheath - Shrinkage test | IS 7098 (Pt.1) : 1988,Cl.15.1e iv, IS 10810 (Pt.12) |
| 437 | ELECTRICAL- CABLES & WIRES | PVC Insulated (Heavy Duty) Electric Cables for working voltage up to & Including 1100V | Physical test for insulation and sheath - Insulation resistance @ 500 V room temperature and elevated temperature | IS 1554 (Pt-1) : 1988 ,Cl.15.1e , IS 10810 (Pt.43) |
| 438 | ELECTRICAL- CABLES & WIRES | PVC Insulated (Heavy Duty) Electric Cables for working voltage up to & Including 1100V | Physical test for insulation and sheath - Tensile strength and elongation at break | IS 1554 (Pt-1) : 1988, Cl.15.1d 1) , IS 10810 (Pt.7) |

# SCOPE OF ACCREDITATION

| | | | |
|---|---|---|---|
| **Laboratory Name :** | SCIENTIFIC AND INDUSTRIAL TESTING AND RESEARCH CENTRE, 83 & 84 AVARAMPALAYAM ROAD, K.R.PURAM POST, COIMBATORE, TAMIL NADU, INDIA | | |
| **Accreditation Standard** | ISO/IEC 17025:2017 | | |
| **Certificate Number** | TC-5324 | **Page No** | 25 of 93 |
| **Validity** | 31/03/2023 to 30/03/2025 | **Last Amended on** | 20/06/2023 |

| S.No | Discipline / Group | Materials or Products tested | Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed | Test Method Specification against which tests are performed and / or the techniques / equipment used |
|---|---|---|---|---|
| 439 | ELECTRICAL- CABLES & WIRES | PVC Insulated (Heavy Duty) Electric Cables for working voltage up to & Including 1100V | Physical test for insulation and sheath-Shrinkage test | IS 1554 (Pt-1) : 1988,Cl.15.1d 3) ,IS 10810 (Pt.12) |
| 440 | ELECTRICAL- CABLES & WIRES | PVC Insulated (Heavy Duty) Electric Cables for working voltage up to & Including 1100V | Test on Conductor - Test for Thickness of insulation | IS 1554 (Pt-1) : 1988,Cl.15.1c) , IS 10810 (Pt.6) |
| 441 | ELECTRICAL- CABLES & WIRES | PVC Insulated (Heavy Duty) Electric Cables for working voltage upto & Including 1100V | Physical test for insulation and sheath - Loss of mass in air oven | IS 1554 (Pt-1) : 1988,Cl.15.1d 5) , IS 10810 (Pt.10) |
| 442 | ELECTRICAL- CABLES & WIRES | PVC Insulated (Heavy Duty) Electric Cables for working voltage upto & Including 1100V | Test on Conductor - Annealing test (For copper) | IS 1554 (Pt-1) : 1988,Cl 15.1a 1) , IS 10810 (Pt.1) |
| 443 | ELECTRICAL- CABLES & WIRES | PVC Insulated (Heavy Duty) Electric Cables for working voltage upto & Including 1100V | Test on Conductor - Tensile test (For Aluminum) | IS 1554 (Pt-1) : 1988,Cl.15.1a 2, IS 10810 (Pt.2) |
| 444 | ELECTRICAL- CABLES & WIRES | PVC Insulated (Heavy Duty) Electric Cables for working voltage upto & Including 1100V | Test on Conductor - Test for Thickness of sheath | IS 1554 (Pt-1) : 1988,Cl.15.1c) , IS 10810 (Pt.6) |
| 445 | ELECTRICAL- CABLES & WIRES | PVC insulated cables for working voltages up to & Including 1100V | Core Identification | Cl.12 of IS 694 |
| 446 | ELECTRICAL- CABLES & WIRES | PVC insulated cables for working voltages up to & Including 1100V | Physical test for insulation - Loss of mass | IS 694 : 2010 ,Table 1, C-2 , IS 10810 (Pt.10) |
| 447 | ELECTRICAL- CABLES & WIRES | PVC insulated cables for working voltages up to & Including 1100V | Physical test for insulation - Tensile strength and elongation at break | IS 694 : 2010 ,Table 1, C-1 , IS 10810 (Pt.7) |
| 448 | ELECTRICAL- CABLES & WIRES | PVC insulated cables for working voltages up to & Including 1100V | Physical test for sheath - Hot deformation test | IS 694 : 2010,Table 1 d-6, IS 10810 (Pt.15) |
| 449 | ELECTRICAL- CABLES & WIRES | PVC insulated cables for working voltages up to & Including 1100V | Physical test for sheath - Loss of mass | IS 694 : 2010,Table 1 d-2, IS 10810 (Pt.10) |
| 450 | ELECTRICAL- CABLES & WIRES | PVC insulated cables for working voltages up to & Including 1100V | Physical test for sheath - Shrinkage test | IS 694 : 2010,Table 1 d-4, IS 10810 (Pt.12) |
| 451 | ELECTRICAL- CABLES & WIRES | PVC insulated cables for working voltages up to & Including 1100V | Test for overall dimensions | IS 694 : 2010,Table 1 , iii b , IS 10810 (Pt.6) |
| 452 | ELECTRICAL- CABLES & WIRES | PVC insulated cables for working voltages up to & Including 1100V | Test for Thickness of sheath | IS 694 : 2010,Table 1, iii b, IS 10810 (Pt.6) |
| 453 | ELECTRICAL- CABLES & WIRES | Cross linked Polyethylene insulated thermoplastic sheathed cables for working voltages up to & including 1100 volts | Core Identification | IS 7098 (Pt.1) : 1988 ,IS 7098 (Pt.1) Cl.10 |
| 454 | ELECTRICAL- CABLES & WIRES | Cross linked Polyethylene insulated thermoplastic sheathed cables for working voltages up to & including 1100 volts | High voltage test at room temp 0 min to 5 min 2 % @ 48 sec | IS 7098 (Pt.1) : 1988 ,Cl.15.1 g, IS 10810 (Pt.45) |
| 455 | ELECTRICAL- CABLES & WIRES | Cross linked Polyethylene insulated thermoplastic sheathed cables for working voltages up to & including 1100 volts | Physical test for insulation - Tensile strength and elongation at break | IS 7098 (Pt.1) : 1988 ,Cl.15.1d i) , IS 10810 (Pt.7) |
| 456 | ELECTRICAL- CABLES & WIRES | Cross linked Polyethylene insulated thermoplastic sheathed cables for working voltages up to & including 1100 volts | Physical test for insulation - Ageing in air oven | IS 7098 (Pt.1) : 1988,Cl.15.1d ii) ,IS 10810 (Pt.11) |

# SCOPE OF ACCREDITATION

**Laboratory Name :** SCIENTIFIC AND INDUSTRIAL TESTING AND RESEARCH CENTRE, 83 & 84 AVARAMPALAYAM ROAD, K.R.PURAM POST, COIMBATORE, TAMIL NADU, INDIA

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

**Certificate Number** TC-5324 **Page No** 26 of 93

**Validity** 31/03/2023 to 30/03/2025 **Last Amended on** 20/06/2023

| S.No | Discipline / Group | Materials or Products tested | Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed | Test Method Specification against which tests are performed and / or the techniques / equipment used |
|---|---|---|---|---|
| 457 | ELECTRICAL- CABLES & WIRES | Cross linked Polyethylene insulated thermoplastic sheathed cables for working voltages up to & including 1100 volts | Physical test for insulation - Shrinkage test | IS 7098 (Pt.1) : 1988 ,Cl.15.1d iv) ,IS 10810 (Pt.12) |
| 458 | ELECTRICAL- CABLES & WIRES | Cross linked Polyethylene insulated thermoplastic sheathed cables for working voltages up to & including 1100 volts | Physical test for insulation - Shrinkage test | IS 7098 (Pt.1) : 1988,Cl.15.1d iv) ,IS 10810 (Pt.12) |
| 459 | ELECTRICAL- CABLES & WIRES | Cross linked Polyethylene insulated thermoplastic sheathed cables for working voltages up to & including 1100 volts | Physical test for insulation - Water absorption ( Gravimetric) | IS 7098 (Pt.1) : 1988 ,Cl.15.1d v) ,IS 10810 (Pt.33) |
| 460 | ELECTRICAL- CABLES & WIRES | Cross linked Polyethylene insulated thermoplastic sheathed cables for working voltages up to & including 1100 volts | Physical test for insulation - Water absorption ( Gravimetric) | IS 7098 (Pt.1) : 1988 ,Cl.15.1d v) ,IS 10810 (Pt.33) |
| 461 | ELECTRICAL- CABLES & WIRES | Cross linked Polyethylene insulated thermoplastic sheathed cables for working voltages up to & including 1100 volts | Physical test for sheath - High voltage test at room temp | IS 7098 (Pt.1) : 1988,Cl.15.1 g, IS 10810 (Pt.45) |
| 462 | ELECTRICAL- CABLES & WIRES | Cross linked Polyethylene insulated thermoplastic sheathed cables for working voltages up to & including 1100 volts | Physical test for sheath - Hot deformation test | IS 7098 (Pt.1) : 1988 ,Cl.15.1d v, IS 10810 (Pt.15) |
| 463 | ELECTRICAL- CABLES & WIRES | Cross linked Polyethylene insulated thermoplastic sheathed cables for working voltages up to & including 1100 volts | Physical test for sheath - Shrinkage test | IS 7098 (Pt.1) : 1988 ,Cl.15.1e iv, IS 10810 (Pt.12) |
| 464 | ELECTRICAL- CABLES & WIRES | Cross linked Polyethylene insulated thermoplastic sheathed cables for working voltages up to & including 1100 volts | Physical test for sheath- Loss of mass in air oven | IS 7098 (Pt.1) : 1988 ,Cl.15.1e iii) ,IS 10810 (Pt.10) |
| 465 | ELECTRICAL- CABLES & WIRES | Cross linked Polyethylene insulated thermoplastic sheathed cables for working voltages up to & including 1100 volts | Physical test for sheath-Tensile strength and elongation at break | IS 7098 (Pt.1) : 1988 ,Cl.15.1e i) ,IS 10810 (Pt.7) |
| 466 | ELECTRICAL- CABLES & WIRES | Cross linked Polyethylene insulated thermoplastic sheathed cables for working voltages up to & including 1100 volts | Test on Conductor - Annealing test (For copper) | IS 7098 (Pt.1) : 1988 ,Cl.15.1a i, IS 10810 (Pt.1) |
| 467 | ELECTRICAL- CABLES & WIRES | Cross linked Polyethylene insulated thermoplastic sheathed cables for working voltages up to & including 1100 volts | Test on Conductor - Resistance test | IS 7098 (Pt.1) : 1988 ,Cl.15.1a iv) , IS 10810 (Pt.5) |
| 468 | ELECTRICAL- CABLES & WIRES | Cross linked Polyethylene insulated thermoplastic sheathed cables for working voltages up to & including 1100 volts | Test on Conductor-Wrapping test (For Aluminium) | IS 7098 (Pt.1) : 1988 ,Cl.15.1a iii) ,IS 10810 (Pt.3) |
| 469 | ELECTRICAL- CABLES & WIRES | Cross linked Polyethylene insulated thermoplastic sheathed cables for working voltages up to & including 1100 volts | Volume Resistivity @ 500V room temperature and elevated temperature | IS 7098 (Pt.1) : 1988 ,Cl.15.1f , IS 10810 (Pt.43) |
| 470 | ELECTRICAL- CABLES & WIRES | Cross linked Polyethylene insulated thermoplastic sheathed cables for working voltages up to & including 1100 volts | Volume Resistivity @ 500V room temperature and elevated temperature | IS 7098 (Pt.1) : 1988 ,Cl.15.1f , IS 10810 (Pt.43) |
| 471 | ELECTRICAL- CABLES & WIRES | Cross linked Polyethylene insulated thermoplastic sheathed cables for working voltages upto & including 1100 volts | Physical test for sheath -Ageing in air oven | IS 7098 (Pt.1) : 1988 ,Cl.15.1e ii) ,IS 10810 (Pt.11) |
| 472 | ELECTRICAL- CABLES & WIRES | Polyethylene insulated thermoplastic sheathed cables for working voltages up to & including 1100 volts | Physical test for insulation - Ageing in air oven | IS 7098 (Pt.1) : 1988 ,Cl.15.1d ii,IS 10810 (Pt.11) |
| 473 | ELECTRICAL- CABLES & WIRES | PVC Insulated (Heavy Duty) Electric Cables for working voltage up to & Including 1100V | Physical test for insulation and sheath - Ageing in air oven | IS 1554 (Pt-1) : 1988 ,Cl.15.1d 2) , IS 10810 (Pt.11) |

# SCOPE OF ACCREDITATION

**Laboratory Name :** SCIENTIFIC AND INDUSTRIAL TESTING AND RESEARCH CENTRE, 83 & 84 AVARAMPALAYAM ROAD, K.R.PURAM POST, COIMBATORE, TAMIL NADU, INDIA

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

**Certificate Number** TC-5324 **Page No** 27 of 93

**Validity** 31/03/2023 to 30/03/2025 **Last Amended on** 20/06/2023

| S.No | Discipline / Group | Materials or Products tested | Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed | Test Method Specification against which tests are performed and / or the techniques / equipment used |
|---|---|---|---|---|
| 474 | ELECTRICAL- CABLES & WIRES | PVC Insulated (Heavy Duty) Electric Cables for working voltage up to & Including 1100V | Physical test for insulation and sheath - Ageing in air oven | IS 1554 (Pt-1) : 1988 ,Cl.15.1d 2) , IS 10810 (Pt.11) |
| 475 | ELECTRICAL- CABLES & WIRES | PVC Insulated (Heavy Duty) Electric Cables for working voltage up to & Including 1100V | Physical test for insulation and sheath - High voltage test - Water immersion test | IS 1554 (Pt-1) : 1988 ,Cl.16.3 , IS 10810 (Pt.45) |
| 476 | ELECTRICAL- CABLES & WIRES | PVC Insulated (Heavy Duty) Electric Cables for working voltage up to & Including 1100V | Physical test for insulation and sheath-Shrinkage test | IS 1554 (Pt-1) : 1988 ,Cl.15.1d 3) ,IS 10810 (Pt.12) |
| 477 | ELECTRICAL- CABLES & WIRES | PVC Insulated (Heavy Duty) Electric Cables for working voltage up to & Including 1100V | Test on Conductor - Wrapping test (For Aluminium) | IS 1554 (Pt-1) : 1988, Cl.15.1a 3) , IS 10810 (Pt.3) |
| 478 | ELECTRICAL- CABLES & WIRES | PVC Insulated (Heavy Duty) Electric Cables for working voltage upto & Including 1100V | Core Identification | Cl.10, IS 1554 (Pt-1) |
| 479 | ELECTRICAL- CABLES & WIRES | PVC Insulated (Heavy Duty) Electric Cables for working voltage upto & Including 1100V | Physical test for insulation and sheath - Heat shock test | IS 1554 (Pt-1) : 1988 ,Cl.15.1 d 6, IS 10810 (Pt.14) |
| 480 | ELECTRICAL- CABLES & WIRES | PVC Insulated (Heavy Duty) Electric Cables for working voltage upto & Including 1100V | Physical test for insulation and sheath - High voltage test - Water immersion test - Temperature | IS 1554 (Pt-1) : 1988 ,Cl.15.1-f, IS 10810 (Pt.45) |
| 481 | ELECTRICAL- CABLES & WIRES | PVC Insulated (Heavy Duty) Electric Cables for working voltage upto & Including 1100V | Physical test for insulation and sheath - High voltage test - Water immersion test-Voltage | IS 1554 (Pt-1) : 1988 ,Cl.15.1-f , IS 10810 (Pt.45) |
| 482 | ELECTRICAL- CABLES & WIRES | PVC Insulated (Heavy Duty) Electric Cables for working voltage upto & Including 1100V | Physical test for insulation and sheath - High voltage test at room temp. | IS 1554 (Pt-1) : 1988 ,Cl.15.1 g) , IS 10810 (Pt.45) |
| 483 | ELECTRICAL- CABLES & WIRES | PVC Insulated (Heavy Duty) Electric Cables for working voltage upto & Including 1100V | Physical test for insulation and sheath - Hot deformation test | IS 1554 (Pt-1) : 1988 ,Cl.15.1d.4 ,IS 10810 (Pt.15) |
| 484 | ELECTRICAL- CABLES & WIRES | PVC Insulated (Heavy Duty) Electric Cables for working voltage upto & Including 1100V | Physical test for insulation and sheath - Insulation resistance @ 500 V room temperature and elevated temperature | IS 1554 (Pt-1) : 1988 ,Cl.15.1e ) , IS 10810 (Pt.43) |
| 485 | ELECTRICAL- CABLES & WIRES | PVC Insulated (Heavy Duty) Electric Cables for working voltage upto & Including 1100V | Physical test for insulation and sheath - Loss of mass in air oven | IS 1554 (Pt-1) : 1988 ,Cl.15.1d 5) , IS 10810 (Pt.10) |
| 486 | ELECTRICAL- CABLES & WIRES | PVC Insulated (Heavy Duty) Electric Cables for working voltage upto & Including 1100V | Test on Conductor - Resistance test | IS 1554 (Pt-1) : 1988 ,Cl.15.1a 4) , IS 10810 (Pt.5) |
| 487 | ELECTRICAL- CABLES & WIRES | PVC insulated cables for working voltages up to & Including 1100V | High voltage test - Water immersion test | IS 694 : 2010,Table 1, iii-e , IS 10810 (Pt.45) |
| 488 | ELECTRICAL- CABLES & WIRES | PVC insulated cables for working voltages up to & Including 1100V | High voltage test - Water immersion test | IS 694 : 2010,Table 1, iii-e , IS 10810 (Pt.45) |
| 489 | ELECTRICAL- CABLES & WIRES | PVC insulated cables for working voltages up to & Including 1100V | High voltage test - Water immersion test | IS 694 : 2010,Table 1, iii-e, IS 10810 (Pt.45) |

# SCOPE OF ACCREDITATION

| | | | |
|---|---|---|---|
| **Laboratory Name :** | SCIENTIFIC AND INDUSTRIAL TESTING AND RESEARCH CENTRE, 83 & 84 AVARAMPALAYAM ROAD, K.R.PURAM POST, COIMBATORE, TAMIL NADU, INDIA | | |
| **Accreditation Standard** | ISO/IEC 17025:2017 | | |
| **Certificate Number** | TC-5324 | **Page No** | 28 of 93 |
| **Validity** | 31/03/2023 to 30/03/2025 | **Last Amended on** | 20/06/2023 |

| S.No | Discipline / Group | Materials or Products tested | Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed | Test Method Specification against which tests are performed and / or the techniques / equipment used |
|---|---|---|---|---|
| 490 | ELECTRICAL- CABLES & WIRES | PVC insulated cables for working voltages up to & Including 1100V | High voltage test at room temp. | IS 694 : 2010,Table 1, iii-e, IS 10810 (Pt.45) |
| 491 | ELECTRICAL- CABLES & WIRES | PVC insulated cables for working voltages up to & Including 1100V | Insulation resistance @ 500V room temperature and elevated temperature | IS 694 : 2010 ,Table 1, iii-e , IS 10810 (Pt.43) |
| 492 | ELECTRICAL- CABLES & WIRES | PVC insulated cables for working voltages up to & Including 1100V | Insulation resistance @ 500V room temperature and elevated temperature | IS 694 : 2010 ,Table 1, iii-e, IS 10810 (Pt.43) |
| 493 | ELECTRICAL- CABLES & WIRES | PVC insulated cables for working voltages up to & Including 1100V | Physical test for insulation - Ageing in air oven | IS 694 : 2010 ,Table 1 C - 3 , IS 10810 (Pt.11) |
| 494 | ELECTRICAL- CABLES & WIRES | PVC insulated cables for working voltages up to & Including 1100V | Physical test for insulation - Ageing in air oven | IS 694 : 2010 ,Table 1 C - 3 , IS 10810 (Pt.11) |
| 495 | ELECTRICAL- CABLES & WIRES | PVC insulated cables for working voltages up to & Including 1100V | Physical test for insulation - Heat shock test | IS 694 : 2010 , Table 1, c - 5 ,IS 10810 (Pt.14) |
| 496 | ELECTRICAL- CABLES & WIRES | PVC insulated cables for working voltages up to & Including 1100V | Physical test for insulation - Hot deformation test | IS 694 : 2010 ,Table 1 c - 6 , IS 10810 (Pt.15) |
| 497 | ELECTRICAL- CABLES & WIRES | PVC insulated cables for working voltages up to & Including 1100V | Physical test for insulation - Loss of mass | IS 694 : 2010 ,Table 1, C-2 , IS 10810 (Pt.10) |
| 498 | ELECTRICAL- CABLES & WIRES | PVC insulated cables for working voltages up to & Including 1100V | Physical test for insulation - Shrinkage test | IS 694 : 2010 ,Table 1, c - 4 ,IS 10810 (Pt.12) |
| 499 | ELECTRICAL- CABLES & WIRES | PVC insulated cables for working voltages up to & Including 1100V | Physical test for insulation - Shrinkage test | IS 694 : 2010 ,Table 1, c-4 ,IS 10810 (Pt.12) |
| 500 | ELECTRICAL- CABLES & WIRES | PVC insulated cables for working voltages up to & Including 1100V | Physical test for sheath - Ageing in air oven | IS 694 : 2010 ,Table 1 d-3, IS 10810 (Pt.11) |
| 501 | ELECTRICAL- CABLES & WIRES | PVC insulated cables for working voltages up to & Including 1100V | Physical test for sheath - Ageing in air oven | IS 694 : 2010 ,Table 1 d-3, IS 10810 (Pt.11) |
| 502 | ELECTRICAL- CABLES & WIRES | PVC insulated cables for working voltages up to & Including 1100V | Physical test for sheath - Heat shock test | IS 694 : 2010 ,Table 1 d-5, IS 10810 (Pt.14) |
| 503 | ELECTRICAL- CABLES & WIRES | PVC insulated cables for working voltages up to & Including 1100V | Physical test for sheath - Loss of mass | IS 694 : 2010,Table 1, d-2 , IS 10810 (Pt.10) |
| 504 | ELECTRICAL- CABLES & WIRES | PVC insulated cables for working voltages up to & Including 1100V | Physical test for sheath - Shrinkage test | IS 694 : 2010,Table 1 d-4, IS 10810 (Pt.12) |
| 505 | ELECTRICAL- CABLES & WIRES | PVC insulated cables for working voltages up to & Including 1100V | Physical test for sheath - Tensile strength and elongation at break | IS 694 : 2010,Table 1 d-1, IS 10810 (Pt.7) |
| 506 | ELECTRICAL- CABLES & WIRES | PVC insulated cables for working voltages up to & Including 1100V | Test for Thickness of insulation | IS 694 : 2010,Table 1, iii b, IS 10810 (Pt.6) |
| 507 | ELECTRICAL- CABLES & WIRES | PVC insulated cables for working voltages up to & Including 1100V | Test on Conductor - Annealing test (For copper) | IS 694 : 2010,Table 1 iii) a1 , IS 10810 (Pt.1) |

# SCOPE OF ACCREDITATION

| | | | |
|---|---|---|---|
| **Laboratory Name :** | SCIENTIFIC AND INDUSTRIAL TESTING AND RESEARCH CENTRE, 83 & 84 AVARAMPALAYAM ROAD, K.R.PURAM POST, COIMBATORE, TAMIL NADU, INDIA | | |
| **Accreditation Standard** | ISO/IEC 17025:2017 | | |
| **Certificate Number** | TC-5324 | **Page No** | 29 of 93 |
| **Validity** | 31/03/2023 to 30/03/2025 | **Last Amended on** | 20/06/2023 |

| S.No | Discipline / Group | Materials or Products tested | Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed | Test Method Specification against which tests are performed and / or the techniques / equipment used |
|---|---|---|---|---|
| 508 | ELECTRICAL- CABLES & WIRES | PVC insulated cables for working voltages up to & Including 1100V | Test on Conductor - Resistance test | IS 694 : 2010,Table 1, iii) a-4 , IS 10810 (Pt.5) |
| 509 | ELECTRICAL- CABLES & WIRES | PVC insulated cables for working voltages up to & Including 1100V | Test on Conductor - Tensile test (For Aluminum) | IS 694 : 2010,Table 1, iii a-2 , IS 10810 (Pt.2) |
| 510 | ELECTRICAL- CABLES & WIRES | PVC insulated cables for working voltages up to & Including 1100V | Test on Conductor - Wrapping test (For Aluminum) | IS 694 : 2010,Table 1, iii,a-3 , IS 10810 (Pt.3) |
| 511 | ELECTRICAL- CAPACITORS | AC Motor capacitors | Tangent of loss angle | Cl.2.5 of IS 2993 |
| 512 | ELECTRICAL- CAPACITORS | AC Motor capacitors | Voltage test between terminals & case | Cl. 2.8 of IS 2993 |
| 513 | ELECTRICAL- CAPACITORS | AC Motor capacitors | Capacitance Measurement | Cl.2.9 of IS 2993 |
| 514 | ELECTRICAL- CAPACITORS | AC Motor capacitors | Check markings | Cl.5.1, IS 2993 |
| 515 | ELECTRICAL- CAPACITORS | AC Motor capacitors | Check of Dimensions | Cl.2.10, IS 2993 |
| 516 | ELECTRICAL- CAPACITORS | AC Motor capacitors | Damp Heat Test | Cl.2.14, IS 2993 |
| 517 | ELECTRICAL- CAPACITORS | AC Motor capacitors | Destruction Test | Cl.2.16, IS 2993 |
| 518 | ELECTRICAL- CAPACITORS | AC Motor capacitors | Endurance Test | Cl.2.13, IS 2993 |
| 519 | ELECTRICAL- CAPACITORS | AC Motor capacitors | Mechanical Tests - Robustness of termination - Test Ua - Tensile | Cl.2.11.1.1, IS 2993 |
| 520 | ELECTRICAL- CAPACITORS | AC Motor capacitors | Mechanical Tests - Robustness of termination - Test Ub - Bending | Cl.2.11.1.2, IS 2993 |
| 521 | ELECTRICAL- CAPACITORS | AC Motor capacitors | Mechanical Tests - Robustness of termination - Test Uc - Torsion | Cl.2.11.1.3, IS 2993 |
| 522 | ELECTRICAL- CAPACITORS | AC Motor capacitors | Mechanical Tests - Robustness of termination - Test Ud - Torque (Screw Terminals) | Cl.2.11.1.4, IS 2993 |
| 523 | ELECTRICAL- CAPACITORS | AC Motor capacitors | Over Load Tests | Cl. 3.1 of IS 2993 |
| 524 | ELECTRICAL- CAPACITORS | AC Motor capacitors | Safety Requirements - Creepage distances and clearances | Cl.4 of IS 2993 |
| 525 | ELECTRICAL- CAPACITORS | AC Motor capacitors | Sealing test | Cl.2.12 of IS 2993 |
| 526 | ELECTRICAL- CAPACITORS | AC Motor capacitors | Self Healing Test | Cl.2.15, IS 2993 |
| 527 | ELECTRICAL- CAPACITORS | AC Motor capacitors | Soldering Test | Cl.2.11.2, IS 2993 |
| 528 | ELECTRICAL- CAPACITORS | AC Motor capacitors | Vibration Test | Cl.2.11.3, IS 2993 |
| 529 | ELECTRICAL- CAPACITORS | AC Motor capacitors | Visual Examination | Cl.2.6 IS 2993 |

# SCOPE OF ACCREDITATION

| | | | |
|---|---|---|---|
| **Laboratory Name :** | SCIENTIFIC AND INDUSTRIAL TESTING AND RESEARCH CENTRE, 83 & 84 AVARAMPALAYAM ROAD, K.R.PURAM POST, COIMBATORE, TAMIL NADU, INDIA | | |
| **Accreditation Standard** | ISO/IEC 17025:2017 | | |
| **Certificate Number** | TC-5324 | **Page No** | 30 of 93 |
| **Validity** | 31/03/2023 to 30/03/2025 | **Last Amended on** | 20/06/2023 |

| S.No | Discipline / Group | Materials or Products tested | Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed | Test Method Specification against which tests are performed and / or the techniques / equipment used |
|---|---|---|---|---|
| 530 | ELECTRICAL- CAPACITORS | AC Motor capacitors | Voltage test between terminals | Cl. 2.7 of IS 2993 |
| 531 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Paper covered rectangular copper wire | Dimensions - Overall diameter | IS 13730 Part 27 : 2018,Cl.4.5 ,IS 13778 (Part 2) |
| 532 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Paper covered rectangular copper wire | Dimensions -Conductor diameter | IS 13730 Part 27 : 2018,Cl 4.1,IS 13778 (Part 2) |
| 533 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Paper covered rectangular copper wire | Electrical Resistance | IS 13730 Part 27 : 2018 ,Cl.5,IS 13778 (Part 5) |
| 534 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Paper covered rectangular copper wire | Elongation | IS 13730 Part 27 : 2018,Cl.6, IS 13778 (Part 3) |
| 535 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Paper covered rectangular copper wire | Flexibility and adherence - Mandrel winding test | IS 13730 Part 27 : 2018,Cl.6, IS 13778 (Part 3) |
| 536 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Paper covered rectangular copper wire | Dimensions - Increase in dimension due to paper covering | IS 13730 Part 27 : 2018,Cl.4.4 ,IS 13778 (Part 2) |
| 537 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Particular types of winding wires Polyester enamelled round copper wire class 130 L | Breakdown voltage at elevated temp | IS 13730 Part 34 : 2000,Cl.13,IS 13778 (Part 5) |
| 538 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Particular types of winding wires Polyester enamelled round copper wire class 130 L | Breakdown voltage at room temp | IS 13730 Part 34 : 2000,Cl.13,IS 13778 (Part 5) |
| 539 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Particular types of winding wires Polyester enamelled round copper wire class 130 L | Continuity of insulation | IS 13730 Part 34 : 2000,Cl.14,IS 13778 (Part 5) |
| 540 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Particular types of winding wires Polyester enamelled round copper wire class 130 L | Cut through | IS 13730 Part 34 : 2000,Cl.10 ,IS 13778 (Part 6) |
| 541 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Particular types of winding wires Polyester enamelled round copper wire class 130 L | Cut through | IS 13730 Part 34 : 2000,Cl.10,IS 13778 (Part 6) |
| 542 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Particular types of winding wires Polyester enamelled round copper wire class 130 L | Dimensions - minimum increase in diameter | IS 13730 Part 34 : 2000,Cl.4.3,IS 13778 (Part 2) |
| 543 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Particular types of winding wires Polyester enamelled round copper wire class 130 L | Dimensions - Out of roundness of diameter | IS 13730 Part 34 : 2000Cl 4.2,IS 13778 (Part 2) |

# SCOPE OF ACCREDITATION

**Laboratory Name :** SCIENTIFIC AND INDUSTRIAL TESTING AND RESEARCH CENTRE, 83 & 84 AVARAMPALAYAM ROAD, K.R.PURAM POST, COIMBATORE, TAMIL NADU, INDIA

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

**Certificate Number** TC-5324 **Page No** 31 of 93

**Validity** 31/03/2023 to 30/03/2025 **Last Amended on** 20/06/2023

| S.No | Discipline / Group | Materials or Products tested | Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed | Test Method Specification against which tests are performed and / or the techniques / equipment used |
|---|---|---|---|---|
| 544 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Particular types of winding wires Polyester enamelled round copper wire class 130 L | Dimensions: Conductor diameter, | IS 13730 Part 34 : 2000,Cl 4.1,IS 13778 (Part 2) |
| 545 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Polyester enamelled round Aluminium wire Class 130 | Breakdown voltage at room temp | IS 13730 Part 9 : 1994,Cl.13 ,IS 13778 (Part 5) |
| 546 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Polyester enamelled round Aluminium wire Class 130 | Continuity of insulation | IS 13730 Part 9 : 1994,Cl.14.IS 13778 (Part 5) |
| 547 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Polyester enamelled round Aluminium wire Class 130 | Cut through | IS 13730 Part 9 : 1994,Cl.10,IS 13778 (Part 6) |
| 548 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Polyester enamelled round Aluminium wire Class 130 | Cut through | IS 13730 Part 9 : 1994,Cl.10,IS 13778 (Part 6) |
| 549 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Polyester enamelled round Aluminium wire Class 130 | Dimensions - Conductor diameter | IS 13730 Part 9 : 1994,Cl 4.1,IS 13778 (Part 2) |
| 550 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Polyester enamelled round Aluminium wire Class 130 | Dimensions - minimum increase in diameter | IS 13730 Part 9 : 1994,Cl.4.3 ,IS 13778 (Part 2) |
| 551 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Polyester enamelled round Aluminium wire Class 130 | Dimensions - Out of roundness of diameter | IS 13730 Part 9 : 1994,Cl 4.2,IS 13778 (Part 2) |
| 552 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Polyester enamelled round Aluminium wire Class 130 | Jerk test | IS 13730 Part 9 : 1994,Cl.8.3,IS 13778 (Part 3) |
| 553 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Polyester enamelled round Aluminium wire Class 130 | Mandrel winding test | IS 13730 Part 9 : 1994,Cl.8.1,IS 13778 (Part 3) |
| 554 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Polyester enamelled round Aluminium wire Class 130 | Resistance measurement | IS 13730 Part 9 : 1994,Cl.5 ,IS 13778 (Part 5) |
| 555 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Polyester enamelled round Aluminium wire Class 130 | Resistance to abrasion | IS 13730 Part 9 : 1994,Cl.11,IS 13778 (Part 3) |
| 556 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Polyester enamelled round Aluminium wire Class 130 | Springiness test | IS 13730 Part 9 : 1994,Cl.7,IS 13778 (Part 3) |
| 557 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Polyester enamelled round Aluminium wire Class 130 | Stretching test | IS 13730 Part 9 : 1994,Cl.8.2,IS 13778 (Part 3) |

# SCOPE OF ACCREDITATION

**Laboratory Name :** SCIENTIFIC AND INDUSTRIAL TESTING AND RESEARCH CENTRE, 83 & 84 AVARAMPALAYAM ROAD, K.R.PURAM POST, COIMBATORE, TAMIL NADU, INDIA

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

**Certificate Number** TC-5324 **Page No** 32 of 93

**Validity** 31/03/2023 to 30/03/2025 **Last Amended on** 20/06/2023

| S.No | Discipline / Group | Materials or Products tested | Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed | Test Method Specification against which tests are performed and / or the techniques / equipment used |
|---|---|---|---|---|
| 558 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Polyester enamelled round copper wire class 155 | Temperature Index - Temperature | IS 13730 Part 3 :2012,Cl 15, IEC 60172 |
| 559 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Polyester enamelled round copper wire class 155 | Breakdown voltage at room | IS 13730 Part 3 :2012,Cl.13 ,IS 13778 (Part 5) |
| 560 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Polyester enamelled round copper wire class 155 | Cl.8.1 Mandrel winding test | IS 13730 Part 3 :2012,Cl.8.1, IS 13778 (Part 3) |
| 561 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Polyester enamelled round copper wire class 155 | Cut through | IS 13730 Part 3 :2012,Cl.10, IS 13778 (Part 6) |
| 562 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Polyester enamelled round copper wire class 155 | Cut through | IS 13730 Part 3 :2012,Cl.10, IS 13778 (Part 6) |
| 563 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Polyester enamelled round copper wire class 155 | Dimensions - minimum increase in diameter | IS 13730 Part 3 :2012,Cl.4.3 ,IS 13778 (Part 2) |
| 564 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Polyester enamelled round copper wire class 155 | Dimensions - Overall diameter | IS 13730 Part 3 :2012,Cl 4.4 , IS 13778 (Part 2) |
| 565 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Polyester enamelled round copper wire class 155 | Elongation test | IS 13730 Part 3 :2012,Cl.6 , IS 13778 (Part 3) |
| 566 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Polyester enamelled round copper wire class 155 | Heat shock | IS 13730 Part 3 :2012,Cl.9,IS 13778 (Part 6) |
| 567 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Polyester enamelled round copper wire class 155 | Jerk test | IS 13730 Part 3 :2012,Cl.8.3, IS 13778 (Part 3) |
| 568 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Polyester enamelled round copper wire class 155 | Peel test | IS 13730 Part 3 :2012,Cl.8.4, IS 13778 (Part 3) |
| 569 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Polyester enamelled round copper wire class 155 | Resistance measurement | IS 13730 Part 3 :2012,Cl.5 , IS 13778 (Part 5) |
| 570 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Polyester enamelled round copper wire class 155 | Resistance to abrasion | IS 13730 Part 3 :2012,Cl.11, IS 13778 (Part 3) |
| 571 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Polyester enamelled round copper wire class 155 | Solvent test | IS 13730 Part 3 :2012,Cl.12, IS 13778 (Part 4) |

# SCOPE OF ACCREDITATION

| | | | |
|---|---|---|---|
| **Laboratory Name :** | SCIENTIFIC AND INDUSTRIAL TESTING AND RESEARCH CENTRE, 83 & 84 AVARAMPALAYAM ROAD, K.R.PURAM POST, COIMBATORE, TAMIL NADU, INDIA | | |
| **Accreditation Standard** | ISO/IEC 17025:2017 | | |
| **Certificate Number** | TC-5324 | **Page No** | 33 of 93 |
| **Validity** | 31/03/2023 to 30/03/2025 | **Last Amended on** | 20/06/2023 |

| S.No | Discipline / Group | Materials or Products tested | Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed | Test Method Specification against which tests are performed and / or the techniques / equipment used |
|---|---|---|---|---|
| 572 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Polyester enamelled round copper wire class 155 | Springiness test | IS 13730 Part 3 :2012,Cl.7, IS 13778 (Part 3) |
| 573 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Polyester or Polyesterimide Over coated with polyamide-imide enamelled rectangular copper wire, Class 200 | Dimensions - Overall diameter | IS 13730 Part 29 : 1996,Cl.4.5 ,IS 13778 (Part 2) |
| 574 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Polyester or Polyesterimide Overcoated with polyamide-imide enamelled rectangular copper wire, Class 200 | Breakdown voltage at elevated temp at 0 Deg C to 250 Deg C | IS 13730 Part 29 : 1996,Cl.13,IS 13778 (Part 5) |
| 575 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Polyester or Polyesterimide Overcoated with polyamide-imide enamelled rectangular copper wire, Class 200 | Breakdown voltage at room temp | IS 13730 Part 29 : 1996,Cl.13 ,IS 13778 (Part 5) |
| 576 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Polyester or Polyesterimide Overcoated with polyamide-imide enamelled rectangular copper wire, Class 200 | Dimensions -Conductor diameter | IS 13730 Part 29 : 1996,Cl 4.1,IS 13778 (Part 2) |
| 577 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Polyester or Polyesterimide Overcoated with polyamide-imide enamelled rectangular copper wire, Class 200 | Electrical Resistance | IS 13730 Part 29 : 1996,Cl.5,IS 13778 (Part 5) |
| 578 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Polyester or Polyesterimide Overcoated with polyamide-imide enamelled rectangular copper wire, Class 200 | Flexibility and Adherence - Mandrel winding test | IS 13730 Part 29 : 1996,Cl.8.1, IS 13778 (Part 3) |
| 579 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Polyester or Polyesterimide Overcoated with polyamide-imide enamelled rectangular copper wire, Class 200 | Heat shock test | IS 13730 Part 29 : 1996,Cl.9,IS 13778 (Part 6) |
| 580 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Polyester or Polyesterimide Overcoated with polyamide-imide enamelled rectangular copper wire, Class 200 | Solvent test | IS 13730 Part 29 : 1996,Cl.12,IS 13778 (Part 4) |
| 581 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Polyester or Polyesterimide Overcoated with polyamide-imide enamelled rectangular copper wire, Class 200 | Springiness test | IS 13730 Part 29 : 1996,Cl.7, IS 13778 (Part 3) |
| 582 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Polyester or Polyesterimide Overcoated with polyamide-imide enamelled rectangular copper wire, Class 200 | Flexibility and Adherence - Adherence test | IS 13730 Part 29 : 1996,Cl.8.2, IS 13778 (Part 3): |
| 583 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Polyester or Polyestermide over coated with polyamide-imide enamelled round copper wire, class 200 | Cut through | IS 13730 Part 13 :2014,Cl.10,IS 13778 (Part 6) |
| 584 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Polyester or Polyestermide over coated with polyamide-imide enamelled round copper wire, class 200 | Dimensions-minimum increase in diameter | IS 13730 Part 13,Cl 4.3, IS 13778 (Part 2) |
| 585 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Polyester or Polyestermide over coated with polyamide-imide enamelled round copper wire, class 200 | Peel test | IS 13730 Part 13, Cl.8.4, IS 13778 (Part 3) |

# SCOPE OF ACCREDITATION

| | | | |
|---|---|---|---|
| **Laboratory Name :** | SCIENTIFIC AND INDUSTRIAL TESTING AND RESEARCH CENTRE, 83 & 84 AVARAMPALAYAM ROAD, K.R.PURAM POST, COIMBATORE, TAMIL NADU, INDIA | | |
| **Accreditation Standard** | ISO/IEC 17025:2017 | | |
| **Certificate Number** | TC-5324 | **Page No** | 34 of 93 |
| **Validity** | 31/03/2023 to 30/03/2025 | **Last Amended on** | 20/06/2023 |

| S.No | Discipline / Group | Materials or Products tested | Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed | Test Method Specification against which tests are performed and / or the techniques / equipment used |
|---|---|---|---|---|
| 586 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Polyester or Polyestermide over coated with polyamide-imide enamelled round copper wire, class 200 | Resistance measurement | IS 13730 Part 13 :2014,Cl.5 ,IS 13778 (Part 5) |
| 587 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Polyester or Polyestermide over coated with polyamide-imide enamelled round copper wire, class 200 | Solvent test | IS 13730 Part 13 :2014,Cl.12 ,IS 13778 (Part 4) |
| 588 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Polyester or Polyestermide over coated with polyamide-imide enamelled round copper wire, class 200 | Stretching test | IS 13730 Part 13 :2014,Cl.8.2,IS 13778 (Part 3) |
| 589 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Polyestermide enamelled round copper wire class 180 | Stretching test | IS 13730 Part 8 : 2014,Cl.8.2 , IS 13778 (Part 3) |
| 590 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Winding Wires for submersible motor , Part-4 Specification for individual wires Sec 1 HR PVC Insulated Wires | IS:8783 (Pt 2) -1995- Table 1 (v) - Shrinkage Test - Length | IS 8783 (Part 4 Sec 1) : 1995, IS 10810 (Pt.12) |
| 591 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Winding Wires for submersible motor , Part-4 Specification for individual wires Sec 1 HR PVC Insulated Wires | IS:8783 (Pt 2) -1995- Table 1 (v) - Shrinkage Test - Temperature | IS 8783 (Part 4 Sec 1) : 1995, IS 10810 (Pt.12) |
| 592 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Winding Wires for submersible motor , Part-4 Specification for individual wires Sec 1 HR PVC Insulated Wires | Application of Insulation | IS 8783 (Part 4), IS 8783 (Part 4 Sec 1), Cl4.2, IS 8783 (Part 4) |
| 593 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Winding Wires for submersible motor , Part-4 Specification for individual wires Sec 1 HR PVC Insulated Wires | Colour | IS 8783 (Part 4), IS 8783 (Part 4 Sec 1), Cl 4.3, IS 8783 (Part 4) |
| 594 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Winding Wires for submersible motor , Part-4 Specification for individual wires Sec 1 HR PVC Insulated Wires | Conductor Composition | IS 8783 (Part 4 Sec 1) : 1995, Cl 5, IS 8783 (Part 1) |
| 595 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Winding Wires for submersible motor , Part-4 Specification for individual wires Sec 1 HR PVC Insulated Wires | Conductor diameter | IS 8783 (Part1) -1995, IS 8783 (Part 4 Sec 1) : 1995, Cl 6, Annex A ,IS 8783 (Pt 3) |
| 596 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Winding Wires for submersible motor , Part-4 Specification for individual wires Sec 1 HR PVC Insulated Wires | Conductor | IS 8783 (Part1)-1995, IS 8783 (Part 4 Sec 1) : 1995,Cl4, Cl 4.1, Cl4.1.2 IS 8783 (Pt1) |
| 597 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Winding Wires for submersible motor , Part-4 Specification for individual wires Sec 1 HR PVC Insulated Wires | Heat Shock Test - Temperature | IS 8783 (Part 2) - Table 1, IS 8783 (Part 4 Sec 1), IS 10810 (Part 14) |
| 598 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Winding Wires for submersible motor , Part-4 Specification for individual wires Sec 1 HR PVC Insulated Wires | High voltage test (Water immersion test at room temp.) | IS 8783 (Part 4 Sec 1) : 1995, Cl4.6, IS 10810 (Part 45) |
| 599 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Winding Wires for submersible motor , Part-4 Specification for individual wires Sec 1 HR PVC Insulated Wires | Hot Deformation Test - Temperature | IS:8783 (Part 2) Table 1, IS 8783 (Part 4 Sec 1), IS 10810 (Part 15) |

# SCOPE OF ACCREDITATION

| | | | |
|---|---|---|---|
| **Laboratory Name :** | SCIENTIFIC AND INDUSTRIAL TESTING AND RESEARCH CENTRE, 83 & 84 AVARAMPALAYAM ROAD, K.R.PURAM POST, COIMBATORE, TAMIL NADU, INDIA | | |
| **Accreditation Standard** | ISO/IEC 17025:2017 | | |
| **Certificate Number** | TC-5324 | **Page No** | 35 of 93 |
| **Validity** | 31/03/2023 to 30/03/2025 | **Last Amended on** | 20/06/2023 |

| S.No | Discipline / Group | Materials or Products tested | Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed | Test Method Specification against which tests are performed and / or the techniques / equipment used |
|---|---|---|---|---|
| 600 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Winding Wires for submersible motor , Part-4 Specification for individual wires Sec 1 HR PVC Insulated Wires | joints in Conductor | IS 8783 (Part1) -1995, IS 8783 (Part 4 Sec 1) : 1995, Cl4, Cl 4.1, Cl4.1.2 IS 8783 (Pt1) |
| 601 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Winding Wires for submersible motor , Part-4 Specification for individual wires Sec 1 HR PVC Insulated Wires | Material | IS 8783 (Pt1)-1995, IS 8783 (Part 4 Sec 1) : 1995, Cl4, Cl 4.1, Cl4.1.2 IS 8783 (Pt1) |
| 602 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Winding Wires for submersible motor , Part-4 Specification for individual wires Sec 1 HR PVC Insulated Wires | Resistance Measurement | IS 8783 (Part 4 Sec 1) : 1995, Cl.6 IS 10810 (Part 5) |
| 603 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Winding Wires for submersible motor , Part-4 Specification for individual wires Sec 1 HR PVC Insulated Wires | Volume Resistivity @ 500 V Room Temperature | IS 8783 (Part 4 Sec 1): 1995,IS 10810 (Part 43) |
| 604 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Winding Wires for submersible motor , Part-4 Specification for individual wires Sec 1 HR PVC Insulated Wires | Water Absorption (Gravimetric) - Temperature | IS 8783 (Part 2) - Table 1, IS 8783 (Part 4 Sec 1), IS 10810 (Part 33) |
| 605 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Winding Wires for submersible motor , Part-4 Specification for individual wires Sec 1 HR PVC Insulated Wires | Water Absorption (Gravimetric) - Water Absorption | IS 8783 (Part 2)-Table 1, IS 8783 (Part 4 Sec 1), IS 10810 (Part 33) |
| 606 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Winding Wires for submersible motor , Part-4 Specification for individual wires Sec 1 HR PVC Insulated Wires | Heat Shock Test - Sign of cracks, Scales, Separation of layers | IS 8783 (Part 2) - Table 1, IS 8783 (Part 4 Sec 1), IS 10810 (Part 14) |
| 607 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Winding Wires for submersible motor , Part-4 Specification for individual wires Sec 1 HR PVC Insulated Wires. | Ageing air oven- Elongation at break Tensile strength. | IS 8783 (Part 2) -1995- Table 1 (iv), IS 8783 (Part 4 Sec 1) : 1995, IS 10810 (Part 11) |
| 608 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Winding Wires for submersible motor , Part-4 Specification for individual wires Sec 1 HR PVC Insulated Wires. | Volume Resistivity @ 500 V Room Temp., and Elevated Temp., - Resistance | IS 8783 (Part 2) -1995 - Table 1 (i), IS 8783 (Part 4 Sec 1) : 1995,IS 10810 (Pt.43) |
| 609 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Winding Wires for submersible motor , Part-4 Specification for individual wires Sec 2 Cross linked Polyethylene insulated and Polyamide Jacketed wires | Ageing air oven- Elongation at break Tensile strength | IS 8783 (Part 2) -1995- Table 1 (iv), IS 8783 (Part 4 Sec 2) : 1995, IS 10810 (Pt.11) |
| 610 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Winding Wires for submersible motor , Part-4 Specification for individual wires Sec 2 Cross linked Polyethylene insulated and Polyamide Jacketed wires | Colour | IS 8783 (Part 4 Sec 2) : 1995, Cl4.3, IS 8783 (Pt 4) |
| 611 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Winding Wires for submersible motor , Part-4 Specification for individual wires Sec 2 Cross linked Polyethylene insulated and Polyamide Jacketed wires | Conductor Composition | IS 8783 (Part 4 Sec 2) : 1995, Cl 5, IS 8783 (Part 1) |
| 612 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Winding Wires for submersible motor , Part-4 Specification for individual wires Sec 2 Cross linked Polyethylene insulated and Polyamide Jacketed wires | Conductor diameter | IS 8783 (Part 1), IS 8783 (Part 4 Sec 2) : 1995, Cl 6 ,Annex A, IS 8783 (Part 3) |
| 613 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Winding Wires for submersible motor , Part-4 Specification for individual wires Sec 2 Cross linked Polyethylene insulated and Polyamide Jacketed wires | Form of Conductor | IS 8783 (Part 4 Sec 2) : 1995, Cl4, Cl 4.1, Cl4.1.2 IS 8783 (Part 1) |

# SCOPE OF ACCREDITATION

**Laboratory Name :** SCIENTIFIC AND INDUSTRIAL TESTING AND RESEARCH CENTRE, 83 & 84 AVARAMPALAYAM ROAD, K.R.PURAM POST, COIMBATORE, TAMIL NADU, INDIA

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

**Certificate Number** TC-5324 **Page No** 36 of 93

**Validity** 31/03/2023 to 30/03/2025 **Last Amended on** 20/06/2023

| S.No | Discipline / Group | Materials or Products tested | Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed | Test Method Specification against which tests are performed and / or the techniques / equipment used |
|---|---|---|---|---|
| 614 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Winding Wires for submersible motor , Part-4 Specification for individual wires Sec 2 Cross linked Polyethylene insulated and Polyamide Jacketed wires | Heat Shock Test - Sign of cracks, Scales, Separation of layers | IS 8783 (Part 2) -1995- Table 1 (ix), IS 8783 (Part 4 Sec 2) : 1995, IS 10810 (Pt.14) |
| 615 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Winding Wires for submersible motor , Part-4 Specification for individual wires Sec 2 Cross linked Polyethylene insulated and Polyamide Jacketed wires | Hot Deformation Test - Temperature | IS 8783 (Part 2) -1995- Table 1 (viii), IS 8783 (Part 4 Sec 2) : 1995,IS 10810 (Pt.15) |
| 616 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Winding Wires for submersible motor , Part-4 Specification for individual wires Sec 2 Cross linked Polyethylene insulated and Polyamide Jacketed wires | Resistance Measurement | IS 8783 (Part 1), IS 8783 (Part 4 Sec 2) : 1995, Cl.6 IS 10810 (Part 5) |
| 617 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Winding Wires for submersible motor , Part-4 Specification for individual wires Sec 2 Cross linked Polyethylene insulated and Polyamide Jacketed wires | Shrinkage Test - Length | IS 8783 (Part 2)-1995-Table 1 (v), IS 8783 (Part 4 Sec 2) : 1995, IS 10810 (Part 12) |
| 618 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Winding Wires for submersible motor , Part-4 Specification for individual wires Sec 2 Cross linked Polyethylene insulated and Polyamide Jacketed wires | Shrinkage Test - Temperature | IS 8783 (Part 2) -1995- Table 1 (v), IS 8783 (Part 4 Sec 2) : 1995, IS 10810 (Part 12) |
| 619 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Winding Wires for submersible motor , Part-4 Specification for individual wires Sec 2 Cross linked Polyethylene insulated and Polyamide Jacketed wires | Thickness of Insulation | IS 8783 (Part 4 Sec 2) : 1995, Cl 4.1, IS 10810 (Part 6) |
| 620 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Winding Wires for submersible motor , Part-4 Specification for individual wires Sec 2 Cross linked Polyethylene insulated and Polyamide Jacketed wires | Water Absorption (Gravimetric) - Temperature | IS 8783 (Part 2) -1995- Table 1 (vi), IS 8783 (Part 4 Sec 2) : 1995, IS 10810 (Part 33) |
| 621 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Winding Wires for submersible motor , Part-4 Specification for individual wires Sec 2 Cross linked Polyethylene insulated and Polyamide Jacketed wires | Joints in Conductor | IS 8783 (Part 4 Sec 2) : 1995, Cl4, Cl 4.1, Cl4.1.2 IS 8783 (Part1) |
| 622 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Winding Wires for submersible motor , Part-4 Specification for individual wires Sec 2 Cross linked Polyethylene insulated and Polyamide Jacketed wires. | Annealing test | IS 8783 (Part1) -1995, IS 8783 (Part 4 Sec 2) : 1995,Cl.6 IS 10810 (Part 1) |
| 623 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Winding Wires for submersible motor , Part-4 Specification for individual wires Sec 2 Cross linked Polyethylene insulated and Polyamide Jacketed wires. | Heat Shock Test - Temperature. | IS 8783 (Part 2) -1995 - Table 1 (ix), IS 8783 (Part 4 Sec 2) : 1995, IS 10810 (Part 14) |
| 624 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Winding Wires for submersible motor , Part-4 Specification for individual wires Sec 2 Cross linked Polyethylene insulated and Polyamide Jacketed wires. | Overall Diameter | IS 8783 (Part 4 Sec 2) : 1995, Cl4.4, IS 8783 (Part 1) |
| 625 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Winding Wires for submersible motor , Part-4 Specification for individual wires Sec 2 Cross linked Polyethylene insulated and Polyamide Jacketed wires. | Water Absorption (Gravimetric) - Water Absorption | IS 8783 (Part 2) -1995- Table 1 (vi) , IS 8783 (Part 4 Sec 2) : 1995, IS 10810 (Part 33) |
| 626 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Winding Wires for submersible motor , Part-4 Specification for individual wires Sec 3 Polyester and polypropylene insulated winding wires | Hot Deformation Test - Temperature | IS 8783 (Part 2)-1995- Table 1 (viii), IS 8783 (Part 4 Sec 3) : 1995, IS 10810 (Part 15) |
| 627 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Winding Wires for submersible motor , Part-4 Specification for individual wires Sec 3 Polyester and polypropylene insulated winding wires | Ageing air oven- Temperature | IS 8783 (Part 2) -1995- Table 1 (iv), IS 8783 (Part 4 Sec 3) : 1995, IS 10810 (Part 11) |

# SCOPE OF ACCREDITATION

**Laboratory Name :** SCIENTIFIC AND INDUSTRIAL TESTING AND RESEARCH CENTRE, 83 & 84 AVARAMPALAYAM ROAD, K.R.PURAM POST, COIMBATORE, TAMIL NADU, INDIA

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

**Certificate Number** TC-5324 **Page No** 37 of 93

**Validity** 31/03/2023 to 30/03/2025 **Last Amended on** 20/06/2023

| S.No | Discipline / Group | Materials or Products tested | Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed | Test Method Specification against which tests are performed and / or the techniques / equipment used |
|---|---|---|---|---|
| 628 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Winding Wires for submersible motor , Part-4 Specification for individual wires Sec 3 Polyester and polypropylene insulated winding wires | Annealing test | IS 8783 (Part1) -1995, IS 8783 (Part 4 Sec 3) : 1995, Cl.6 IS 10810 (Part 1) |
| 629 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Winding Wires for submersible motor , Part-4 Specification for individual wires Sec 3 Polyester and polypropylene insulated winding wires | Colour | IS 8783 (Part 4 Sec 3) : 1995, Cl4.3, IS 8783 (Pt 4) |
| 630 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Winding Wires for submersible motor , Part-4 Specification for individual wires Sec 3 Polyester and polypropylene insulated winding wires | Form of Conductor | IS 8783 (Part 1)-1995, IS 8783 (Part 4 Sec 3) : 1995, Cl4, Cl 4.1, Cl4.1.2 IS 8783 (Part t1) |
| 631 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Winding Wires for submersible motor , Part-4 Specification for individual wires Sec 3 Polyester and polypropylene insulated winding wires | Heat Shock Test - Sign of cracks, Scales, Separation of layers | IS 8783 (Part 2) -1995- Table 1 (ix), IS 8783 (Part 4 Sec 3) : 1995, IS 10810 (Part 14) |
| 632 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Winding Wires for submersible motor , Part-4 Specification for individual wires Sec 3 Polyester and polypropylene insulated winding wires | Heat Shock Test - Temperature | IS 8783 (Part 2) -1995- Table 1 (ix), IS 8783 (Part 4 Sec 3) : 1995, IS 10810 (Part 14) |
| 633 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Winding Wires for submersible motor , Part-4 Specification for individual wires Sec 3 Polyester and polypropylene insulated winding wires | Shrinkage Test - Temperature | IS 8783 (Part 4 Sec 3) : 1995,IS:8783 (Pt 2) -1995 - Table 1 (v), IS 10810 (Part 12) |
| 634 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Winding Wires for submersible motor , Part-4 Specification for individual wires Sec 3 Polyester and polypropylene insulated winding wires | Tensile strength Elongation at break | IS 8783 (Part 2) -1995- Table 1 (iii), IS 8783 (Part 4 Sec 3) : 1995, IS 10810 (Part 7) |
| 635 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Winding Wires for submersible motor , Part-4 Specification for individual wires Sec 3 Polyester and polypropylene insulated winding wires | Volume Resistivity @ 500 V Room Temp., and Elevated Temp., Temperature | IS 8783 (Part 2) -1995- Table 1 (i), IS 8783 (Part 4 Sec 3) : 1995, IS 10810 (Part 43) |
| 636 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Winding Wires for submersible motor , Part-4 Specification for individual wires Sec 3 Polyester and polypropylene insulated winding wires | Water Absorption (Gravimetric) - Temperature | IS 8783 (Part 2) -1995- Table 1 (vi), IS 8783 (Part 4 Sec 3) : 1995, IS 10810 (Part 33) |
| 637 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Winding Wires for submersible motor , Part-4 Specification for individual wires Sec 3 Polyester and polypropylene insulated winding wires | Water Absorption (Gravimetric) - Water Absorption | IS 8783 (Part 2) -1995- Table 1 (vi), IS 8783 (Part 4 Sec 3) : 1995, IS 8783 (Part 4 Sec 3) : 1995, IS 8783 (Part 4 Sec 3) : 1995, IS 10810 (Part 33) |
| 638 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Winding Wires for submersible motor , Part-4 Specification for individual wires Sec 3 Polyester and polypropylene insulated winding wires. | Shrinkage Test - Length | IS 8783 (Part 2) -1995- Table 1 (v), IS 8783 (Part 4 Sec 3) : 1995,IS 8783 (Part 4 Sec 3) : 1995,IS 10810 (Pt.12) |
| 639 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Particular types of winding wires Polyester enamelled round copper wire class 130 L | Dimensions - Overall diameter | IS 13730 Part 34 : 2000 ,Cl 4.4,IS 13778 (Part 2) |
| 640 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Particular types of winding wires Polyester enamelled round copper wire class 130 L | Elongation test | Cl.6,IS 13778 (Part 3), IS 13730 Part 34 |

# SCOPE OF ACCREDITATION

| | | | |
|---|---|---|---|
| **Laboratory Name :** | SCIENTIFIC AND INDUSTRIAL TESTING AND RESEARCH CENTRE, 83 & 84 AVARAMPALAYAM ROAD, K.R.PURAM POST, COIMBATORE, TAMIL NADU, INDIA | | |
| **Accreditation Standard** | ISO/IEC 17025:2017 | | |
| **Certificate Number** | TC-5324 | **Page No** | 38 of 93 |
| **Validity** | 31/03/2023 to 30/03/2025 | **Last Amended on** | 20/06/2023 |

| S.No | Discipline / Group | Materials or Products tested | Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed | Test Method Specification against which tests are performed and / or the techniques / equipment used |
|---|---|---|---|---|
| 641 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Particular types of winding wires Polyester enamelled round copper wire class 130 L | Heat shock | Cl.9,IS 13778 (Part 6), IS 13730 Part 34 |
| 642 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Particular types of winding wires Polyester enamelled round copper wire class 130 L | Jerk test | Cl.8.3,IS 13778 (Part 3), IS 13730 Part 34 |
| 643 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Particular types of winding wires Polyester enamelled round copper wire class 130 L | Mandrel winding test | I.8.1,IS 13778 (Part 3), IS 13730 Part 34 |
| 644 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Particular types of winding wires Polyester enamelled round copper wire class 130 L | Peel test | Cl.8.4,IS 13778 (Part 3), IS 13730 Part 34 |
| 645 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Particular types of winding wires Polyester enamelled round copper wire class 130 L | Resistance measurement | Cl.5,IS 13778 (Part 5), IS 13730 Part 34 |
| 646 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Particular types of winding wires Polyester enamelled round copper wire class 130 L | Resistance to abrasion | Cl.11, IS 13778 (Part 3), IS 13730 Part 34 |
| 647 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Particular types of winding wires Polyester enamelled round copper wire class 130 L | Solvent test | Cl.12, IS 13778 (Part 4), IS 13730 Part 34 |
| 648 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Particular types of winding wires Polyester enamelled round copper wire class 130 L | Solvent test | Cl.12,IS 13778 (Part 4), IS 13730 Part 34 |
| 649 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Particular types of winding wires Polyester enamelled round copper wire class 130 L | Springiness test | Cl.7, IS 13778 (Part 3), IS 13730 Part 34 |
| 650 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Particular types of winding wires Polyester enamelled round copper wire class 130 L | Stretching test | Cl.8.2,IS 13778 (Part 3), IS 13730 Part 34 |
| 651 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Polyester enameled round copper wire Class 130 | Dimensions - Conductor diameter | Cl 4.1, IS 13778 (Part 2), IS 13730 Part 45 |
| 652 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Polyester enamelled round Aluminium wire Class 130 | Breakdown voltage at elevated temp at 0 Deg C to 250 Deg C | IS 13730 Part 9 : 1994 ,Cl.13,IS 13778 (Part 5) |
| 653 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Polyester enamelled round Aluminium wire Class 130 | Dimensions - Overall diameter | IS 13730 Part 9 : 1994 ,Cl 4.4 ,IS 13778 (Part 2) |
| 654 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Polyester enamelled round Aluminium wire Class 130 | Elongation test | IS 13730 Part 9 : 1994 ,Cl.6 ,IS 13778 (Part 3) |

# SCOPE OF ACCREDITATION

**Laboratory Name :** SCIENTIFIC AND INDUSTRIAL TESTING AND RESEARCH CENTRE, 83 & 84 AVARAMPALAYAM ROAD, K.R.PURAM POST, COIMBATORE, TAMIL NADU, INDIA

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

**Certificate Number** TC-5324 **Page No** 39 of 93

**Validity** 31/03/2023 to 30/03/2025 **Last Amended on** 20/06/2023

| S.No | Discipline / Group | Materials or Products tested | Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed | Test Method Specification against which tests are performed and / or the techniques / equipment used |
|---|---|---|---|---|
| 655 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Polyester enamelled round Aluminium wire Class 130 | Heat shock | IS 13730 Part 9 : 1994 ,Cl.9,IS 13778 (Part 6) |
| 656 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Polyester enamelled round Aluminium wire Class 130 | Peel test | IS 13730 Part 9 : 1994 ,Cl.8.4,IS 13778 (Part 3) |
| 657 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Polyester enamelled round Aluminium wire Class 130 | Solvent test | IS 13730 Part 9 : 1994 ,Cl.12 ,IS 13778 (Part 4) |
| 658 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Polyester enamelled round Aluminium wire Class 130 | Solvent test | IS 13730 Part 9 : 1994 ,Cl.12,IS 13778 (Part 4) |
| 659 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Polyester enamelled round copper wire Class 130 | Temperature Index - Temperature | Cl 15, IEC 60172, IS 13730 Part 45 |
| 660 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Polyester enamelled round copper wire Class 130 | Temperature Index - Voltage | Cl 15, IEC 60172, IS 13730 Part 45 |
| 661 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Polyester enamelled round copper wire Class 130 | Breakdown voltage at elevated temp at 0 to 250ºC | Cl.13, IS 13778 (Part 5), IS 13730 Part 45 |
| 662 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Polyester enamelled round copper wire Class 130 | Breakdown voltage at room temp | Cl.13,IS 13778 (Part 5), IS 13730 Part 45 |
| 663 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Polyester enamelled round copper wire Class 130 | Continuity of insulation | Cl.14,IS 13778 (Part 5), IS 13730 Part 45 |
| 664 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Polyester enamelled round copper wire Class 130 | Cut through | Cl.10,IS 13778 (Part 6), IS 13730 Part 45 |
| 665 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Polyester enamelled round copper wire Class 130 | Cut through | Cl.10,IS 13778 (Part 6), IS 13730 Part 45 |
| 666 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Polyester enamelled round copper wire Class 130 | Dimensions- minimum increase in diameter | IS 13730 Part 45 : 1999 ,Cl.4.3,IS 13778 (Part 2) |
| 667 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Polyester enamelled round copper wire Class 130 | Dimensions-Out of roundness of diameter | IS 13730 Part 45 :1999 ,Cl 4.2 ,IS 13778 (Part 2) |
| 668 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Polyester enamelled round copper wire Class 130 | Elongation test | Cl.6,IS 13778 (Part 3), IS 13730 Part 45 |

# SCOPE OF ACCREDITATION

| | | | |
|---|---|---|---|
| **Laboratory Name :** | SCIENTIFIC AND INDUSTRIAL TESTING AND RESEARCH CENTRE, 83 & 84 AVARAMPALAYAM ROAD, K.R.PURAM POST, COIMBATORE, TAMIL NADU, INDIA | | |
| **Accreditation Standard** | ISO/IEC 17025:2017 | | |
| **Certificate Number** | TC-5324 | **Page No** | 40 of 93 |
| **Validity** | 31/03/2023 to 30/03/2025 | **Last Amended on** | 20/06/2023 |

| S.No | Discipline / Group | Materials or Products tested | Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed | Test Method Specification against which tests are performed and / or the techniques / equipment used |
|---|---|---|---|---|
| 669 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Polyester enamelled round copper wire Class 130 | Heat shock | Cl.9,IS 13778 (Part 6), IS 13730 Part 45 |
| 670 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Polyester enamelled round copper wire Class 130 | Jerk test | Cl.8.3, IS 13778 (Part 3), IS 13730 Part 45 |
| 671 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Polyester enamelled round copper wire Class 130 | Mandrel winding test | Cl.8.1, IS 13778 (Part 3), IS 13730 Part 45 |
| 672 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Polyester enamelled round copper wire Class 130 | Overall diameter | Cl 4.4,IS 13778 (Part 2), IS 13730 Part 45 |
| 673 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Polyester enamelled round copper wire Class 130 | Peel test | Cl.8.4,IS 13778 (Part 3), IS 13730 Part 45 |
| 674 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Polyester enamelled round copper wire Class 130 | Resistance measurement | Cl.5,IS 13778 (Part 5), IS 13730 Part 45 |
| 675 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Polyester enamelled round copper wire Class 130 | Resistance to abrasion | Cl.11,IS 13778 (Part 3), IS 13730 Part 45 |
| 676 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Polyester enamelled round copper wire Class 130 | Solvent test | Cl.12,IS 13778 (Part 4), IS 13730 Part 45 |
| 677 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Polyester enamelled round copper wire Class 130 | Solvent test | Cl.12,IS 13778 (Part 4), IS 13730 Part 45 |
| 678 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Polyester enamelled round copper wire Class 130 | Springiness test | Cl.7,IS 13778 (Part 3), IS 13730 Part 45 |
| 679 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Polyester enamelled round copper wire Class 130 | Stretching test | Cl.8.2,IS 13778 (Part 3), IS 13730 Part 45 |
| 680 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Polyester enamelled round copper wire class 155 | Temperature Index - Voltage | IS 13730 Part 3 :2012 ,Cl 15, IEC 60172 |
| 681 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Polyester enamelled round copper wire class 155 | Breakdown voltage at elevated temp at 0 Deg C to 250 Deg C | IS 13730 Part 3 :2012 ,Cl.13,IS 13778 (Part 5) |
| 682 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Polyester enamelled round copper wire class 155 | Continuity of insulation | IS 13730 Part 3 :2012 ,Cl.14,IS 13778 (Part 5) |

# SCOPE OF ACCREDITATION

**Laboratory Name :** SCIENTIFIC AND INDUSTRIAL TESTING AND RESEARCH CENTRE, 83 & 84 AVARAMPALAYAM ROAD, K.R.PURAM POST, COIMBATORE, TAMIL NADU, INDIA

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

**Certificate Number** TC-5324 **Page No** 41 of 93

**Validity** 31/03/2023 to 30/03/2025 **Last Amended on** 20/06/2023

| S.No | Discipline / Group | Materials or Products tested | Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed | Test Method Specification against which tests are performed and / or the techniques / equipment used |
|---|---|---|---|---|
| 683 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Polyester enamelled round copper wire class 155 | Dimensions -Conductor diameter | IS 13730 Part 3 :2012 ,Cl 4.1 ,IS 13778 (Part 2) |
| 684 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Polyester enamelled round copper wire class 155 | Dimensions -Out of roundness of diameter | IS 13730 Part 3 :2012 ,Cl 4.2 ,IS 13778 (Part 2) |
| 685 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Polyester enamelled round copper wire class 155 | Solvent test | IS 13730 Part 3 :2012 ,Cl.12, IS 13778 (Part 4) |
| 686 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Polyester enamelled round copper wire class 155 | Stretching test | IS 13730 Part 3 :2012 ,Cl.8.2, IS 13778 (Part 3) |
| 687 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Polyester or Polyesterimide Overcoated with polyamide-imide enamelled rectangular copper wire, Class 200 | Elongation | IS 13730 Part 29 : 1996 ,Cl.6, IS 13778 (Part 3) |
| 688 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Polyester or Polyesterimide Overcoated with polyamide-imide enamelled rectangular copper wire, Class 200 | Solvent test | IS 13730 Part 29 : 1996 ,Cl.12 ,IS 13778 (Part 4) |
| 689 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Polyester or Polyestermide over coated with polyamide-imide enamelled round copper wire, class 200 | Cut through | IS 13730 Part 13 :2014,Cl.10,IS 13778 (Part 6) |
| 690 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Polyester or Polyestermide over coated with polyamide-imide enamelled round copper wire, class 200 | Breakdown voltage at elevated temp 0 to 250 Deg C | IS 13730 Part 13 :2014,Cl.13,IS 13778 (Part 5) |
| 691 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Polyester or Polyestermide over coated with polyamide-imide enamelled round copper wire, class 200 | Breakdown voltage at room temp | IS 13730 Part 13 :2014,Cl.13 ,IS 13778 (Part 5) |
| 692 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Polyester or Polyestermide over coated with polyamide-imide enamelled round copper wire, class 200 | Continuity of insulation | IS 13730 Part 13 :2014 ,Cl.14,IS 13778 (Part 5) |
| 693 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Polyester or Polyestermide over coated with polyamide-imide enamelled round copper wire, class 200 | Dimensions - Overall diameter | IS 13730 Part 13 :2014 ,Cl 4.4 ,IS 13778 (Part 2) |
| 694 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Polyester or Polyestermide over coated with polyamide-imide enamelled round copper wire, class 200 | Dimensions- Conductor diameter | IS 13730 Part 13 :2014 ,Cl 4.1,IS 13778 (Part 2) |
| 695 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Polyester or Polyestermide over coated with polyamide-imide enamelled round copper wire, class 200 | Dimensions -Out of roundness of diameter | IS 13730 Part 13 :2014 ,Cl 4.2 ,IS 13778 (Part 2) |
| 696 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Polyester or Polyestermide over coated with polyamide-imide enamelled round copper wire, class 200 | Elongation test | IS 13730 Part 13 :2014 ,Cl.6,IS 13778 (Part 3) |

# SCOPE OF ACCREDITATION

| | | | |
|---|---|---|---|
| **Laboratory Name :** | SCIENTIFIC AND INDUSTRIAL TESTING AND RESEARCH CENTRE, 83 & 84 AVARAMPALAYAM ROAD, K.R.PURAM POST, COIMBATORE, TAMIL NADU, INDIA | | |
| **Accreditation Standard** | ISO/IEC 17025:2017 | | |
| **Certificate Number** | TC-5324 | **Page No** | 42 of 93 |
| **Validity** | 31/03/2023 to 30/03/2025 | **Last Amended on** | 20/06/2023 |

| S.No | Discipline / Group | Materials or Products tested | Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed | Test Method Specification against which tests are performed and / or the techniques / equipment used |
|---|---|---|---|---|
| 697 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Polyester or Polyestermide over coated with polyamide-imide enamelled round copper wire, class 200 | Heat shock | IS 13730 Part 13 :2014 ,Cl.9,IS 13778 (Part 6) |
| 698 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Polyester or Polyestermide over coated with polyamide-imide enamelled round copper wire, class 200 | Jerk test | IS 13730 Part 13 :2014 ,Cl.8.3 ,IS 13778 (Part 3) |
| 699 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Polyester or Polyestermide over coated with polyamide-imide enamelled round copper wire, class 200 | Mandrel winding test | IS 13730 Part 13 :2014,Cl.8.1,IS 13778 (Part 3) |
| 700 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Polyester or Polyestermide over coated with polyamide-imide enamelled round copper wire, class 200 | Resistance to abrasion | IS 13730 Part 13 :2014 ,Cl.11,IS 13778 (Part 3) |
| 701 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Polyester or Polyestermide over coated with polyamide-imide enamelled round copper wire, class 200 | Solvent test | IS 13730 Part 13 :2014 ,Cl.12 ,IS 13778 (Part 4) |
| 702 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Polyester or Polyestermide over coated with polyamide-imide enamelled round copper wire, class 200 | Springiness test | IS 13730 Part 13 :2014 ,Cl.7 ,IS 13778 (Part 3) |
| 703 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Polyestermide enameled round copper wire class 180 | Dimensions - minimum increase in diameter | Cl.4.3, IS 13778 (Part 2), IS 13730 Part 8 |
| 704 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Polyestermide enameled round copper wire class 180 | Dimensions - Out of roundness of diameter, | Cl 4.2, IS 13778 (Part 2), IS 13730 Part 8 |
| 705 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Polyestermide enamelled round copper wire class 180 | Breakdown voltage at elevated temp at 0 to 250ºC | Cl.13, IS 13778 (Part 5), IS 13730 Part 8 |
| 706 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Polyestermide enamelled round copper wire class 180 | Breakdown voltage at room temp | Cl.13, IS 13778 (Part 5), IS 13730 Part 8 |
| 707 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Polyestermide enamelled round copper wire class 180 | Continuity of insulation | Cl.14, IS 13778 (Part 5), IS 13730 Part 8 |
| 708 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Polyestermide enamelled round copper wire class 180 | Cut through | Cl.10, IS 13778 (Part 6), IS 13730 Part 8 |
| 709 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Polyestermide enamelled round copper wire class 180 | Cut through | Cl.10, IS 13778 (Part 6), IS 13730 Part 8 |
| 710 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Polyestermide enamelled round copper wire class 180 | Dimensions - Conductor diameter, | Cl 4.1, IS 13778 (Part 2), IS 13730 Part 8 |

# SCOPE OF ACCREDITATION

**Laboratory Name :** SCIENTIFIC AND INDUSTRIAL TESTING AND RESEARCH CENTRE, 83 & 84 AVARAMPALAYAM ROAD, K.R.PURAM POST, COIMBATORE, TAMIL NADU, INDIA

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

**Certificate Number** TC-5324 **Page No** 43 of 93

**Validity** 31/03/2023 to 30/03/2025 **Last Amended on** 20/06/2023

| S.No | Discipline / Group | Materials or Products tested | Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed | Test Method Specification against which tests are performed and / or the techniques / equipment used |
|---|---|---|---|---|
| 711 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Polyestermide enamelled round copper wire class 180 | Dimensions - Overall diameter | Cl 4.4, IS 13778 (Part 2), IS 13730 Part 8 |
| 712 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Polyestermide enamelled round copper wire class 180 | Elongation test | Cl.6, IS 13778 (Part 3), IS 13730 Part 8 |
| 713 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Polyestermide enamelled round copper wire class 180 | Heat shock | Cl.9, IS 13778 (Part 6), IS 13730 Part 8 |
| 714 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Polyestermide enamelled round copper wire class 180 | Jerk test | IS 13778 (Part 3), IS 13730 Part 8 |
| 715 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Polyestermide enamelled round copper wire class 180 | Mandrel winding test | Cl.8.1, IS 13778 (Part 3), IS 13730 Part 8 |
| 716 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Polyestermide enamelled round copper wire class 180 | Peel test | Cl.8.4, IS 13778 (Part 3), IS 13730 Part 8 |
| 717 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Polyestermide enamelled round copper wire class 180 | Resistance measurement | Cl.5, IS 13778 (Part 5), IS 13730 Part 8 |
| 718 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Polyestermide enamelled round copper wire class 180 | Resistance to abrasion | Cl.11, IS 13778 (Part 3), IS 13730 Part 8 |
| 719 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Polyestermide enamelled round copper wire class 180 | Solvent test | Cl.12, IS 13778 (Part 4), IS 13730 Part 8 |
| 720 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Polyestermide enamelled round copper wire class 180 | Solvent test | Cl.12, IS 13778 (Part 4), IS 13730 Part 8 |
| 721 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Polyestermide enamelled round copper wire class 180 | Springiness test | Cl.7, IS 13778 (Part 3), IS 13730 Part 8 |
| 722 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Winding Wires for submersible motor , Part-4 Specification for individual wires Sec 1 HR PVC Insulated Wires | Ageing air oven- Temperature | IS 8783 (Part 4 Sec 1) : 1995 , IS 8783 (Part 2) -1995- Table 1 (iv), IS 10810 (Part 11) |
| 723 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Winding Wires for submersible motor , Part-4 Specification for individual wires Sec 1 HR PVC Insulated Wires | Annealing test | IS 8783 (Part 1)-1995, IS 8783 (Part 4 Sec 1) : 1995 , Cl.6 IS 10810 (Part 1) |
| 724 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Winding Wires for submersible motor , Part-4 Specification for individual wires Sec 1 HR PVC Insulated Wires | Before Ageing - Tensile strength Elongation at break | IS 8783 (Part 2) -1995- Table 1 (iii), IS 8783 (Part 4 Sec 1) : 1995 ,IS 10810 (Part 7) |

# SCOPE OF ACCREDITATION

**Laboratory Name :** SCIENTIFIC AND INDUSTRIAL TESTING AND RESEARCH CENTRE, 83 & 84 AVARAMPALAYAM ROAD, K.R.PURAM POST, COIMBATORE, TAMIL NADU, INDIA

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

**Certificate Number** TC-5324 **Page No** 44 of 93

**Validity** 31/03/2023 to 30/03/2025 **Last Amended on** 20/06/2023

| S.No | Discipline / Group | Materials or Products tested | Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed | Test Method Specification against which tests are performed and / or the techniques / equipment used |
|---|---|---|---|---|
| 725 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Winding Wires for submersible motor , Part-4 Specification for individual wires Sec 1 HR PVC Insulated Wires | Overall Diameter | IS 8783 (Part 4) -1995, IS 8783 (Part 4 Sec 1) : 1995, Cl4.4, IS 8783 (Part 1) |
| 726 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Winding Wires for submersible motor , Part-4 Specification for individual wires Sec 1 HR PVC Insulated Wires | Thickness of Insulation | IS 8783 (Part 4) -1995, IS 8783 (Part 4 Sec 1) : 1995 ,Cl 4.1, IS 10810 (Pt.6) |
| 727 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Winding Wires for submersible motor , Part-4 Specification for individual wires Sec 1 HR PVC Insulated Wires. | Form of Conductor | IS 8783 (Part 1) -1995, IS 8783 (Part 4 Sec 1) : 1995 , Cl4, Cl 4.1, Cl4.1.2 IS 8783 (Part 1) |
| 728 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Winding Wires for submersible motor , Part-4 Specification for individual wires Sec 2 Cross linked Polyethylene insulated and Polyamide Jacketed wires | Conductor | IS 8783 (Part 1) -1995, IS 8783 (Part 4 Sec 2) : 1995 , Cl4, Cl 4.1, Cl4.1.2 IS 8783 (Pt1) |
| 729 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Winding Wires for submersible motor , Part-4 Specification for individual wires Sec 2 Cross linked Polyethylene insulated and Polyamide Jacketed wires | High voltage test (Water immersion test at room temp.) | IS 8783 (Part 4) -1995, IS 8783 (Part 4 Sec 2) : 1995 ,Cl4.6, IS 10810 (Part 45) |
| 730 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Winding Wires for submersible motor , Part-4 Specification for individual wires Sec 2 Cross linked Polyethylene insulated and Polyamide Jacketed wires | Material | IS 8783 (Part1) -1995, IS 8783 (Part 4 Sec 2) : 1995 ,Cl4, Cl 4.1, Cl4.1.2 IS 8783 (Part 1) |
| 731 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Winding Wires for submersible motor , Part-4 Specification for individual wires Sec 2 Cross linked Polyethylene insulated and Polyamide Jacketed wires | Tensile strength Elongation at break | IS 8783 (Part 2) -1995- Table 1 (iii), IS 8783 (Part 4 Sec 2) : 1995 , IS 10810 (Part 7) |
| 732 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Winding Wires for submersible motor , Part-4 Specification for individual wires Sec 2 Cross linked Polyethylene insulated and Polyamide Jacketed wires | Volume Resistivity @ 500 V Room Temp., and Elevated Temp., - Resistance | IS 8783 (Part 2) -1995- Table 1 (i), IS 8783 (Part 4 Sec 2) : 1995 , IS 10810 (Part 43) |
| 733 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Winding Wires for submersible motor , Part-4 Specification for individual wires Sec 2 Cross linked Polyethylene insulated and Polyamide Jacketed wires | Volume Resistivity @ 500 V Room Temp., and Elevated Temp., - Temperature | IS 8783 (Part 2) -1995- Table 1 (i), IS 8783 (Part 4 Sec 2) : 1995 , IS 10810 (Part 43) |
| 734 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Winding Wires for submersible motor , Part-4 Specification for individual wires Sec 2 Cross linked Polyethylene insulated and Polyamide Jacketed wires. | Ageing air oven- Temperature. | IS 8783 (Part 2) -1995-Table 1 (iv), IS 8783 (Part 4 Sec 2) : 1995, IS 10810 (Part 11) |
| 735 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Winding Wires for submersible motor , Part-4 Specification for individual wires Sec 2 Cross linked Polyethylene insulated and Polyamide Jacketed wires. | Application of Insulation | IS 8783 (Part 4 Sec 2) : 1995 , Cl4.2, IS 8783 (Part 4) |
| 736 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Winding Wires for submersible motor , Part-4 Specification for individual wires Sec 2 Cross linked polyethylene insulated and polyamide jacketed wires | Conductor diameter | IS 8783 (Part 1) -1995, IS 8783 (Part 4 Sec 2) : 1995 ,Cl 6 ,Annex A,IS 8783 (Part 3) |
| 737 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Winding Wires for submersible motor , Part-4 Specification for individual wires Sec 3 Polyester and polypropylene insulated winding wires | Application of Insulation | IS 8783 (Part 4 Sec 3) : 1995 , Cl4.2, IS 8783 (Pt 4) |
| 738 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Winding Wires for submersible motor , Part-4 Specification for individual wires Sec 3 Polyester and polypropylene insulated winding wires | Conductor Composition | IS 8783 (Part1) -1995, IS 8783 (Part 4 Sec 3) : 1995, Cl 5, IS 8783 (Part 1) |

# SCOPE OF ACCREDITATION

| | | | |
|---|---|---|---|
| **Laboratory Name :** | SCIENTIFIC AND INDUSTRIAL TESTING AND RESEARCH CENTRE, 83 & 84 AVARAMPALAYAM ROAD, K.R.PURAM POST, COIMBATORE, TAMIL NADU, INDIA | | |
| **Accreditation Standard** | ISO/IEC 17025:2017 | | |
| **Certificate Number** | TC-5324 | **Page No** | 45 of 93 |
| **Validity** | 31/03/2023 to 30/03/2025 | **Last Amended on** | 20/06/2023 |

| S.No | Discipline / Group | Materials or Products tested | Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed | Test Method Specification against which tests are performed and / or the techniques / equipment used |
|---|---|---|---|---|
| 739 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Winding Wires for submersible motor , Part-4 Specification for individual wires Sec 3 Polyester and polypropylene insulated winding wires | Conductor diameter | IS 8783 (Part 1) -1995, IS 8783 (Part 4 Sec 3) : 1995 ,Cl 6 ,Annex A, IS 8783 (Part 3) |
| 740 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Winding Wires for submersible motor , Part-4 Specification for individual wires Sec 3 Polyester and polypropylene insulated winding wires | Conductor | IS 8783 (Part1) -1995, IS 8783 (Part 4 Sec 3) : 1995 ,Cl4, Cl 4.1, Cl4.1.2 IS 8783 (Part 1) |
| 741 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Winding Wires for submersible motor , Part-4 Specification for individual wires Sec 3 Polyester and polypropylene insulated winding wires | High voltage test (Water immersion test at room temp.) | IS 8783 (Part 4) -1995, IS 8783 (Part 4 Sec 3) : 1995, Cl4.5, IS 10810 (Part 45) |
| 742 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Winding Wires for submersible motor , Part-4 Specification for individual wires Sec 3 Polyester and polypropylene insulated winding wires | joints in Conductor | IS 8783 (Part 4 Sec 3) : 1995, Cl4, Cl 4.1, Cl4.1.2 IS 8783 (Part1) |
| 743 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Winding Wires for submersible motor , Part-4 Specification for individual wires Sec 3 Polyester and polypropylene insulated winding wires | Material | IS 8783 (Part1)-1995, IS 8783 (Part 4 Sec 3) : 1995, Cl4, Cl 4.1, Cl4.1.2 IS 8783 (Pt1) |
| 744 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Winding Wires for submersible motor , Part-4 Specification for individual wires Sec 3 Polyester and polypropylene insulated winding wires | Overall Diameter | IS 8783 (Part 4) -1995, IS 8783 (Part 4 Sec 3) : 1995 , Cl4.4, IS 8783 (Part 1) |
| 745 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Winding Wires for submersible motor , Part-4 Specification for individual wires Sec 3 Polyester and polypropylene insulated winding wires | Resistance Measurement | IS 8783 (Part1)-1995, IS 8783 (Part 4 Sec 3) : 1995, Cl.6 IS 10810 (Part 5) |
| 746 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Winding Wires for submersible motor , Part-4 Specification for individual wires Sec 3 Polyester and polypropylene insulated winding wires | Thickness of Insulation | IS 8783 (Part 4) -1995, IS 8783 (Part 4 Sec 3) : 1995 , Cl4.1, IS 10810 (Part 6) |
| 747 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Winding Wires for submersible motor , Part-4 Specification for individual wires Sec 3 Polyester and polypropylene insulated winding wires | Volume Resistivity @ 500 V Room Temp., and Elevated Temp. - Resistance | IS 8783 (Part 2) -1995- Table 1 (i), IS 8783 (Part 4 Sec 3) : 1995, IS 10810 (Part 43) |
| 748 | ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS | Winding Wires for submersible motor , Part-4 Specification for individual wires Sec 3 Polyester and polypropylene insulated winding wires | Ageing air oven- Elongation at break Tensile strength | IS 8783 (Part 2) -1995- Table 1 (iv), IS 8783 (Part 4 Sec 3) : 1995, IS 10810 (Part 11) |
| 749 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Household and Similar Electrical Appliances - Safety (Particular requirements for Pumps) | Earth& Earth Continuity Test | IEC 60335 - 2 - 41,Cl. 27, IEC 60335-1 Edition 6.0 |
| 750 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Household and Similar Electrical Appliances - Safety (Particular requirements for Pumps) | Leakage current Test-Current | IEC 60335 - 2 - 41, Cl. 13& 16 of IEC 60335-1 Edition 6.0 |
| 751 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Household and Similar Electrical Appliances - Safety (Particular requirements for Pumps) | Moisture Resistance test-Temperature | IEC 60335 - 2 - 41,Cl. 15 of IEC 60335-1 Edition 6.0 |
| 752 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Household and Similar Electrical Appliances - Safety (Particular requirements for Pumps) | Direction of Rotation | Cl. 7 of IEC 60335-2-41 Edition 4.0 2012-12 |
| 753 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Household and Similar Electrical Appliances - Safety (Particular requirements for Pumps) | Earth& Earth Continuity Test | IEC 60335 - 2 - 41 ,Cl. 27, IEC 60335-1 Edition 6.0 |

# SCOPE OF ACCREDITATION

**Laboratory Name :** SCIENTIFIC AND INDUSTRIAL TESTING AND RESEARCH CENTRE, 83 & 84 AVARAMPALAYAM ROAD, K.R.PURAM POST, COIMBATORE, TAMIL NADU, INDIA

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

**Certificate Number** TC-5324 **Page No** 46 of 93

**Validity** 31/03/2023 to 30/03/2025 **Last Amended on** 20/06/2023

| S.No | Discipline / Group | Materials or Products tested | Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed | Test Method Specification against which tests are performed and / or the techniques / equipment used |
|---|---|---|---|---|
| 754 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Household and Similar Electrical Appliances - Safety (Particular requirements for Pumps) | Earth& Earth Continuity Test | IEC 60335 - 2 - 41 ,Cl. 27, IEC 60335-1 Edition 6.0 |
| 755 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Household and Similar Electrical Appliances - Safety (Particular requirements for Pumps) | Electric Strength Test-High Voltage Test | IEC 60335 - 2 - 41 ,Cl. 13, Table 4, Cl. 16, Table 7, IEC 60335-1 Edition 6.0 |
| 756 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Household and Similar Electrical Appliances - Safety (Particular requirements for Pumps) | Electric Strength Test-High Voltage Test | IEC 60335 - 2 - 41 ,Cl. 13, Table 4, Cl. 16, Table 7, IEC 60335-1 Edition 6.0 |
| 757 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Household and Similar Electrical Appliances - Safety (Particular requirements for Pumps) | Load & Heating Test - Frequency | IEC 60335-2-41 Edition 4.0 2012-12,Cl. 10, Table 1, Cl. 11, Cl. 19 of IEC 60335-1 Edition 6.0, IEC 60034-1 Edition 14.0 : 2022 |
| 758 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Household and Similar Electrical Appliances - Safety (Particular requirements for Pumps) | Load & Heating Test - Input Power | IEC 60335-2-41 Edition 4.0 2012-12,Cl. 10, Table 1, Cl. 11, Cl. 19 of IEC 60335 -1 Edition 6.0 , IEC 60034-1 Edition 14.0 : 2022 |
| 759 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Household and Similar Electrical Appliances - Safety (Particular requirements for Pumps) | Load & Heating Test - Speed | IEC 60335-2-41 Edition 4.0 2012-12,Cl. 10, Table 1, Cl. 11, Cl. 19 of IEC 60335-1 Edition 6.0, IEC 60034-1 Edition 14.0 : 2022 |
| 760 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Household and Similar Electrical Appliances - Safety (Particular requirements for Pumps) | Temperature Measurement Temperature measurement using resistance method | Cl. 5.7.2, Table 8, Cl. 19 of IEC 60034-2-1 |
| 761 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Household and Similar Electrical Appliances-Safety (General Requirements) | Earth& Earth Continuity Test | IEC 60335 -1,Cl. 27, Annex A.1 of IEC 60335-1 Edition 6.0 |
| 762 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Household and Similar Electrical Appliances-Safety (General Requirements) | Load&Heating Test -Input power | IEC 60335 -1, IEC 60335-2-41 Edition 4.0 2012-12,Cl. 10, Table 1, Cl. 11, Cl. 19 of IEC 60335-1 Edition 6.0, IEC 60034-1 Edition 14.0:2022 |
| 763 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Household and Similar Electrical Appliances-Safety (General Requirements) | Load&Heating Test-Power Factor | IEC 60335 -1 ,IEC 60335-2-41 Edition 4.0 2012-12,Cl. 10, Table 1, Cl. 11, Cl. 19 of IEC 60335-1 Edition 6.0, IEC 60034-1 Edition 14.0:2022 |
| 764 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Household and Similar Electrical Appliances-Safety (General Requirements) | Load&Heating Test-Torque | IEC 60335 -1 , IEC 60335-2-41 Edition 4.0 2012-12,Cl. 10, Table 1, Cl. 11, Cl. 19 of IEC 60335-1 Edition 6.0, IEC 60034-1 Edition 14.0:2022 |

# SCOPE OF ACCREDITATION

| | | | |
|---|---|---|---|
| **Laboratory Name :** | SCIENTIFIC AND INDUSTRIAL TESTING AND RESEARCH CENTRE, 83 & 84 AVARAMPALAYAM ROAD, K.R.PURAM POST, COIMBATORE, TAMIL NADU, INDIA | | |
| **Accreditation Standard** | ISO/IEC 17025:2017 | | |
| **Certificate Number** | TC-5324 | **Page No** | 47 of 93 |
| **Validity** | 31/03/2023 to 30/03/2025 | **Last Amended on** | 20/06/2023 |

| S.No | Discipline / Group | Materials or Products tested | Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed | Test Method Specification against which tests are performed and / or the techniques / equipment used |
|---|---|---|---|---|
| 765 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Household and Similar Electrical Appliances-Safety (General Requirements) | Marking& Instructions | IEC 60335 -1 ,Cl. 7 of IEC 60335-2-41 Edition 4.0 2012-12 & Cl. 7 of IEC 60335-1 Edition 6.0 |
| 766 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Household and Similar Electrical Appliances-Safety (General Requirements) | No Load Test-Voltage | IEC 60335 -1,IEC 60335-2-41 Edition 4.0 2012-12 / IEC 60335-1 Edition 6.0, IEC 60034-1 Edition 14.0:2022 |
| 767 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Line Operated Three Phase AC Induction Motor (IE Code) "Efficiency Classes and Performance Specifications" (Upto & including 140 kW) | Load Test - Speed | Cl 16.2.3 IS 12615 |
| 768 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Pumps -Centrifugal regenerative pumps for clear,cold water- upto & including 1500 W for AC induction motors for single phase motors(upto & including 7.5 kW for three phase motors) | Type of Enclosures | Cl.13, IS 8472 |
| 769 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Single phase small AC and universal electric motors, (upto & including 1500 W for AC induction motors, upto & including 750 W for universal motors) | High voltage test - Current | Cl. 12.7 of IS 996 |
| 770 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Single phase small AC and universal electric motors, (upto & including 1500 W for AC induction motors, upto & including 750 W for universal motors) | Load Test - Current | Cl 12.4,IS 996 |
| 771 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Single phase small AC and universal electric motors, (upto & including 1500 W for AC induction motors, upto & including 750 W for universal motors) | Load Test - Frequency | Cl 12.4 IS 996 |
| 772 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Single phase small AC and universal electric motors, (upto & including 1500 W for AC induction motors, upto & including 750 W for universal motors) | Load Test - Power Factor | Cl 12.4, IS 996 |
| 773 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Single phase small AC and universal electric motors, (upto & including 1500 W for AC induction motors, upto & including 750 W for universal motors) | Locked rotor test - Current | Cl 16.3.2 IS 996 |
| 774 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Single phase small AC and universal electric motors, (upto & including 1500 W for AC induction motors, upto & including 750 W for universal motors) | No load test - Current | Cl 16.3.2.a IS 996 |
| 775 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Single phase small AC and universal electric motors, (upto & including 1500 W for AC induction motors, upto & including 750 W for universal motors) | No Load Test - Frequency | Cl 16.3.2.a,IS 996 |
| 776 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Single phase small AC and universal electric motors, (upto & including 1500 W for AC induction motors, upto & including 750 W for universal motors) | Pull out Torque Test - Torque | Cl 12.1.1 IS 996 |
| 777 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Single phase small AC and universal electric Single phase motors, (upto & including 1500 W for AC induction motors, upto & including 750 W for universal motors) | Commutation Test | Cl 12.10 IS 996 |

# SCOPE OF ACCREDITATION

| | | | |
|---|---|---|---|
| **Laboratory Name :** | SCIENTIFIC AND INDUSTRIAL TESTING AND RESEARCH CENTRE, 83 & 84 AVARAMPALAYAM ROAD, K.R.PURAM POST, COIMBATORE, TAMIL NADU, INDIA | | |
| **Accreditation Standard** | ISO/IEC 17025:2017 | | |
| **Certificate Number** | TC-5324 | **Page No** | 48 of 93 |
| **Validity** | 31/03/2023 to 30/03/2025 | **Last Amended on** | 20/06/2023 |

| S.No | Discipline / Group | Materials or Products tested | Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed | Test Method Specification against which tests are performed and / or the techniques / equipment used |
|---|---|---|---|---|
| 778 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Single phase small AC motors (upto & including 2200 W for AC induction motors | Dimensions-Test | Cl 7&17.3.n IS 996 |
| 779 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Single phase small AC motors (upto & including 2200 W for AC induction motors | Dimensions-Test | Cl 7&17.3.n IS 996 |
| 780 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Single phase small AC motors (upto & including 2200 W for AC induction motors | Dimensions-Test | Cl 7&17.3.n IS 996 |
| 781 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Single phase small AC motors (upto & including 2200 W for AC induction motors | High Voltage Test - Current | Cl 13 IS 996 |
| 782 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Single phase small AC motors (upto & including 2200 W for AC induction motors | Load Test - Current | Cl 17.3.d IS 996 |
| 783 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Single phase small AC motors (upto & including 2200 W for AC induction motors | Load Test - Efficiency | Cl 17.3.d IS 996 |
| 784 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Single phase small AC motors (upto & including 2200 W for AC induction motors | Load Test - Input Power | Cl 17.3.d IS 996 |
| 785 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Single phase small AC motors (upto & including 2200 W for AC induction motors | Load Test - Power Factor | Cl 17.3.d IS 996 |
| 786 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Single phase small AC motors (upto & including 2200 W for AC induction motors | Load Test - Voltage | Cl 17.3.d IS 996 |
| 787 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Single phase small AC motors (upto & including 2200 W for AC induction motors | Locked Rotor Test - Current | Cl 17.b&c IS 996 |
| 788 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Single phase small AC motors (upto & including 2200 W for AC induction motors | Locked Rotor Test - Torque | Cl 17.b&c IS 996 |
| 789 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Specification for textile motors - part 1-loom motors (up to & including 3.7kW) | Load Test - Power Factor | Cl 16.3.1.e IS 2972(Pt-I) |
| 790 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Specification for textile motors - part 1-loom motors (upto & including 3.7kW) | Load Test - Speed | Cl 16.3.1.e IS 2972(Pt-I) |
| 791 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Specification for textile motors - part 1-loom motors (upto & including 3.7kW) | Locked Rotor Test - Torque | Cl 16.3.1.d IS 2972(Pt-I) |
| 792 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Specification for textile motors - part 1-loom motors (upto & including 3.7kW) | Momentary Over Load Test - Torque | Cl 10.1 IS 2972(Pt-I) |
| 793 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Specification for textile motors - part 1-loom motors (upto & including 3.7kW) | No load test - Current | Cl 16.3.1.b IS 2972(Pt-I) |
| 794 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Specification for textile motors - part 1-loom motors (upto & including 3.7kW) | No load test - Frequency | Cl 16.3.1.b IS 2972(Pt-I) |
| 795 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Specification for textile motors - part 1-loom motors (upto & including 3.7kW) | No load Test - Voltage | Cl 16.3.1.b IS 2972 (Pt-I) |
| 796 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Specification for textile motors - part 1-loom motors (upto & including 3.7kW) | Resistance of Winding - Resistance | Cl 16.3.1a IS 2972(Pt-I) |

# SCOPE OF ACCREDITATION

| | | | |
|---|---|---|---|
| **Laboratory Name :** | SCIENTIFIC AND INDUSTRIAL TESTING AND RESEARCH CENTRE, 83 & 84 AVARAMPALAYAM ROAD, K.R.PURAM POST, COIMBATORE, TAMIL NADU, INDIA | | |
| **Accreditation Standard** | ISO/IEC 17025:2017 | | |
| **Certificate Number** | TC-5324 | **Page No** | 49 of 93 |
| **Validity** | 31/03/2023 to 30/03/2025 | **Last Amended on** | 20/06/2023 |

| S.No | Discipline / Group | Materials or Products tested | Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed | Test Method Specification against which tests are performed and / or the techniques / equipment used |
|---|---|---|---|---|
| 797 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Three Phase & Single Phase AC Induction Motor | Load Curve Test - Output Power | IEC 60034-1/ IEC 60034-2-1,Cl.6 of IEC60034-2-1,Edition 2.0 |
| 798 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Three Phase & Single Phase AC Induction Motor | No load test - Current | IEC 60034-1/ IEC 60034-2-1,Table 15 of IEC 60034 – 1 Edition 14.0 |
| 799 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Three Phase & Single Phase AC Induction Motor | No load test - Input Power | IEC 60034-1/ IEC 60034-2-1,Table 15 of IEC 60034 – 1 Edition 14.0 |
| 800 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Three Phase & Single Phase AC Induction Motor | No load test - Voltage | IEC 60034-1/ IEC 60034-2-1,Table 15 of IEC 60034 – 1 Edition 14.0 |
| 801 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Three Phase & Single Phase AC Induction Motor | Occasional Excess Current Test | IEC 60034-1/ IEC 60034-2-1,Cl. 9.3 of IEC 60034 – 1 Edition 14.0 |
| 802 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Three Phase & Single Phase AC Induction Motor | Pull Out Torque / Breakdown Torque Test - Torque | IEC 60034-1/ IEC 60034-2-1,Table 21 of IEC 60034 – 1 Edition 14.0 |
| 803 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Three Phase & Single Phase AC Induction Motor | Pull Up Torque Test - Torque | IEC 60034-1/ IEC 60034-2-1,Cl. 9.5 of IEC 60034 – 1 Edition 14.0 |
| 804 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Three Phase & Single Phase AC Induction Motor | Temperature Measurement - Winding Temperature measurement | IEC 60034-1/ IEC 60034-2-1,Cl. 5.7.2 of IEC60034-2-1,Edition 2.0 |
| 805 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Centrifugal jet pump, upto & including 15 kW for three phase motors, (upto & including 1500 W for single phase motors) | Direction of Rotation | Cl 5.2 IS 12225 |
| 806 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Centrifugal jet pump, upto & including 15 kW for three phase motors, (upto & including 1500 W for single phase motors) | High Voltage Test - Current | Cl 5.2 IS 12225 |
| 807 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Centrifugal jet pump, upto & including 15 kW for three phase motors, (upto & including 1500 W for single phase motors) | High Voltage Test - Voltage | Cl 5.2 IS 12225 |
| 808 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Centrifugal jet pump, upto & including 15 kW for three phase motors, (upto & including 1500 W for single phase motors) | Insulation Resistance Test @ 500 V DC- Resistance | Cl 5.2 IS 12225 |
| 809 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Centrifugal jet pump, upto & including 15 kW for three phase motors, (upto & including 1500 W for single phase motors) | Locked Rotor Test - Current | Cl 5.2 IS 12225 |
| 810 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Centrifugal jet pump, upto & including 15 kW for three phase motors, (upto & including 1500 W for single phase motors) | Locked Rotor Test - Torque | Cl 5.2 IS 12225 |

# SCOPE OF ACCREDITATION

| | | | |
|---|---|---|---|
| **Laboratory Name :** | SCIENTIFIC AND INDUSTRIAL TESTING AND RESEARCH CENTRE, 83 & 84 AVARAMPALAYAM ROAD, K.R.PURAM POST, COIMBATORE, TAMIL NADU, INDIA | | |
| **Accreditation Standard** | ISO/IEC 17025:2017 | | |
| **Certificate Number** | TC-5324 | **Page No** | 50 of 93 |
| **Validity** | 31/03/2023 to 30/03/2025 | **Last Amended on** | 20/06/2023 |

| S.No | Discipline / Group | Materials or Products tested | Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed | Test Method Specification against which tests are performed and / or the techniques / equipment used |
|---|---|---|---|---|
| 811 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Centrifugal jet pump, upto & including 15 kW for three phase motors, (upto & including 1500 W for single phase motors) | Marking / Rating plate | Cl 12 IS 12225 |
| 812 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Centrifugal jet pump, upto & including 15 kW for three phase motors, (upto & including 1500 W for single phase motors) | Material of Construction | Cl 6 IS 12225 |
| 813 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Centrifugal jet pump, upto & including 15 kW for three phase motors, (upto & including 1500 W for single phase motors) | No load Test - Current | Cl 5.2 IS 12225 |
| 814 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Centrifugal Regenerative for clear, cold water upto & including 1.5k W for AC induction motors for single phase motors(upto & including 7.5 kW for three phase motors) | Motor full Load Test - Voltage | Cl 13,IS 8472 |
| 815 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Centrifugal regenerative pumps for clear, cold water up to & including 1.5k W for AC induction motors for single phase motors(upto & including 7.5 kW for three phase motors) | Motor full Load Test - Speed | Cl 13,IS 8472 |
| 816 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Centrifugal regenerative pumps for clear, cold water up to & including 1.5k W for AC induction motors for single phase motors(upto & including 7.5 kW for three phase motors) | Pump Performance - Current | Cl 12. ,IS 8472 |
| 817 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Centrifugal regenerative pumps for clear, cold water up to & including 1.5k W for AC induction motors for single phase motors(upto & including 7.5 kW for three phase motors) | Pump Performance - Pipe size | Cl 12 ,IS 8472 |
| 818 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Centrifugal regenerative pumps for clear, cold water up to & including 1.5k W for AC induction motors for single phase motors(upto & including 7.5 kW for three phase motors) | Pump performance test - Flow | Cl 12 ,IS 8472 |
| 819 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Centrifugal regenerative pumps for clear, cold water up to & including 1.5k W for AC induction motors for single phase motors(upto & including 7.5 kW for three phase motors) | Pump performance test - Hydrostatic pressure test | Cl 12.3 ,IS 8472 |
| 820 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Centrifugal regenerative pumps for clear, cold water up to & including 1.5k W for AC induction motors for single phase motors(upto & including 7.5 kW for three phase motors) | Pump performance test - Efficiency | Cl 12 ,IS 8472 |
| 821 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Centrifugal Regenerative pumps for clear, cold water up to & including 1.5k W for AC induction motors for single phase motors(upto & including 7.5 kW for three phase motors) | Pump performance test - Power | Cl 12 ,IS 8472 |
| 822 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Centrifugal regenerative pumps for clear, cold water up to & including 1.5k W for AC induction motors for single phase motors(upto & including 7.5 kW for three phase motors) | Pump performance test-Head | Cl 12,IS 8472 |
| 823 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Centrifugal regenerative pumps for clear, cold water up to & including 1.5k W for AC induction motors for single phase motors(upto & including 7.5 kW for three phase motors) | Pump performance test-Self priming test | Cl 12.5 ,IS 8472 |
| 824 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Centrifugal regenerative pumps for clear, cold water up to & including 1.5k W for AC induction motors for single phase motors(upto & including 7.5 kW for three phase motors) | Resistance of winding - Resistance | Cl 13 ,IS 8472 |

# SCOPE OF ACCREDITATION

| | | | |
|---|---|---|---|
| **Laboratory Name :** | SCIENTIFIC AND INDUSTRIAL TESTING AND RESEARCH CENTRE, 83 & 84 AVARAMPALAYAM ROAD, K.R.PURAM POST, COIMBATORE, TAMIL NADU, INDIA | | |
| **Accreditation Standard** | ISO/IEC 17025:2017 | | |
| **Certificate Number** | TC-5324 | **Page No** | 51 of 93 |
| **Validity** | 31/03/2023 to 30/03/2025 | **Last Amended on** | 20/06/2023 |

| S.No | Discipline / Group | Materials or Products tested | Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed | Test Method Specification against which tests are performed and / or the techniques / equipment used |
|---|---|---|---|---|
| 825 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Centrifugal regenerative pumps for clear, cold water up to & including 1.5k W for AC induction motors for single phase motors(upto & including 7.5 kW for three phase motors) | Terminal markings | IS 8472 |
| 826 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Centrifugal regenerative pumps for clear, cold water upto & including 1.5k W for AC induction motors for single phase motors(upto & including 7.5 kW for three phase motors) | locked rotor test - Current | Cl 13 ,IS 8472 |
| 827 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Centrifugal regenerative pumps for clear, cold water upto & including 1.5k W for AC induction motors for single phase motors(upto & including 7.5 kW for three phase motors) | Locked rotor test - Torque | Cl 13 ,IS 8472 |
| 828 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Centrifugal regenerative pumps for clear, cold water upto & including 1.5k W for AC induction motors for single phase motors(upto & including 7.5 kW for three phase motors) | Motor full Load Test - Efficiency | Cl 13,IS 8472 |
| 829 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Centrifugal regenerative pumps for clear, cold water upto & including 1.5k W for AC induction motors for single phase motors(upto & including 7.5 kW for three phase motors) | Motor full Load Test - Frequency | Cl 13,IS 8472 |
| 830 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Centrifugal regenerative pumps for clear, cold water upto & including 1.5k W for AC induction motors for single phase motors(upto & including 7.5 kW for three phase motors) | Motor full Load Test - Power Factor | Cl 13,IS 8472 |
| 831 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Centrifugal regenerative pumps for clear, cold water upto & including 1.5k W for AC induction motors for single phase motors(upto & including 7.5 kW for three phase motors) | No load Test - Current | Cl 13 ,IS 8472 |
| 832 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Centrifugal regenerative pumps for clear, cold water upto & including 1.5k W for AC induction motors for single phase motors(upto & including 7.5 kW for three phase motors) | No load Test - Frequency | Cl 13 ,IS 8472 |
| 833 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Centrifugal regenerative pumps for clear, cold water upto & including 1.5k W for AC induction motors for single phase motors(upto & including 7.5 kW for three phase motors) | No load Test - Input Power | Cl 13 ,IS 8472 |
| 834 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Centrifugal regenerative pumps for clear, cold water upto & including 1.5k W for AC induction motors for single phase motors(upto & including 7.5 kW for three phase motors) | No load Test - Speed | Cl 13 ,IS 8472 |
| 835 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Centrifugal regenerative pumps for clear, cold water upto & including 1.5k W for AC induction motors for single phase motors(upto & including 7.5 kW for three phase motors) | No load Test - Voltage | Cl 13 ,IS 8472 |
| 836 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Centrifugal regenerative pumps for clear, cold water upto & including 1.5k W for AC induction motors for single phase motors(upto & including 7.5 kW for three phase motors) | Resistance of Winding - Resistance | Cl 13 ,IS 8472 |
| 837 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Centrifugal regenerative pumps for clear, cold water upto & including 1.5k W for AC induction motors for single phase motors(upto & including 7.5 kW for three phase motors) | Design Features | Cl 10 IS 8472 |
| 838 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Centrifugal regenerative pumps for clear, cold water upto & including 1.5k W for AC induction motors for single phase motors(upto & including 7.5 kW for three phase motors) | Direction of rotation | Cl 8 ,IS 8472 |

# SCOPE OF ACCREDITATION

| | | | |
|---|---|---|---|
| **Laboratory Name :** | SCIENTIFIC AND INDUSTRIAL TESTING AND RESEARCH CENTRE, 83 & 84 AVARAMPALAYAM ROAD, K.R.PURAM POST, COIMBATORE, TAMIL NADU, INDIA | | |
| **Accreditation Standard** | ISO/IEC 17025:2017 | | |
| **Certificate Number** | TC-5324 | **Page No** | 52 of 93 |
| **Validity** | 31/03/2023 to 30/03/2025 | **Last Amended on** | 20/06/2023 |

| S.No | Discipline / Group | Materials or Products tested | Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed | Test Method Specification against which tests are performed and / or the techniques / equipment used |
|---|---|---|---|---|
| 839 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Centrifugal regenerative pumps for clear, cold water upto & including 1.5k W for AC induction motors for single phase motors(upto & including 7.5 kW for three phase motors) | General Requirements | Cl 11 IS 8472 |
| 840 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Centrifugal regenerative pumps for clear, cold water upto & including 1.5k W for AC induction motors for single phase motors(upto & including 7.5 kW for three phase motors) | High voltage test - Voltage | Cl 13 ,IS 8472 |
| 841 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Centrifugal regenerative pumps for clear, cold water upto & including 1.5k W for AC induction motors for single phase motors(upto & including 7.5 kW for three phase motors) | High voltage test - Current | Cl 13 ,IS 8472 |
| 842 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Centrifugal regenerative pumps for clear, cold water upto & including 1.5k W for AC induction motors for single phase motors(upto & including 7.5 kW for three phase motors) | Insulation resistance test @ 500 V DC | Cl 13 ,IS 8472 |
| 843 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Centrifugal regenerative pumps for clear, cold water upto & including 1.5k W for AC induction motors for single phase motors(upto & including 7.5 kW for three phase motors) | Marking / Rating plate | Cl 16 IS 8472 |
| 844 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Centrifugal regenerative pumps for clear, cold water upto & including 1.5k W for AC induction motors for single phase motors(upto & including 7.5 kW for three phase motors) | Material of Construction | Cl 7 IS 8472 |
| 845 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Centrifugal regenerative pumps for clear, cold water upto & including 1.5k W for AC induction motors for single phase motors(upto & including 7.5 kW for three phase motors) | Motor full Load Test - Load Torque | Cl 13,IS 8472 |
| 846 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Centrifugal regenerative pumps for clear, cold water upto & including 1.5k W for AC induction motors for single phase motors(upto & including 7.5 kW for three phase motors) | Motor full Load Test - Current | Cl 13,IS 8472 |
| 847 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Centrifugal regenerative pumps for clear, cold water upto & including 1.5k W for AC induction motors for single phase motors(upto & including 7.5 kW for three phase motors) | Pull up torque test - torque | Cl 13 ,IS 8472 |
| 848 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Centrifugal regenerative pumps for clear, cold water upto & including 1.5k W for AC induction motors for single phase motors(upto & including 7.5 kW for three phase motors) | temperature rise test-Temperature | Cl 13.1.2.1 ,IS 8472 |
| 849 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | DC & Universal Motors | Commutation Test | IEC 60034-1 / IEC 60034-2-1,Cl. 9.10 of IEC 60034-1 Edition 14.0 |
| 850 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | DC & Universal Motors | Connection Diagram | IEC 60034-1 / IEC 60034-2-1,IEC 60034-8 |
| 851 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | DC & Universal Motors | Direction of rotation | IEC 60034-1 / IEC 60034-2-1,Table 15 of IEC 60034-1 Edition 14.0 |
| 852 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | DC & Universal Motors | Insulation Resistance measurement test @ 500 V DC | IEC 60034-1 / IEC 60034-2-1,IEC 60034-1 Edition 14.0 |

# SCOPE OF ACCREDITATION

| | | | |
|---|---|---|---|
| **Laboratory Name :** | SCIENTIFIC AND INDUSTRIAL TESTING AND RESEARCH CENTRE, 83 & 84 AVARAMPALAYAM ROAD, K.R.PURAM POST, COIMBATORE, TAMIL NADU, INDIA | | |
| **Accreditation Standard** | ISO/IEC 17025:2017 | | |
| **Certificate Number** | TC-5324 | **Page No** | 53 of 93 |
| **Validity** | 31/03/2023 to 30/03/2025 | **Last Amended on** | 20/06/2023 |

| S.No | Discipline / Group | Materials or Products tested | Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed | Test Method Specification against which tests are performed and / or the techniques / equipment used |
|---|---|---|---|---|
| 853 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | DC & Universal Motors | Load curve test (Direct Torque measurement method) - Efficiency | IEC 60034-1 / IEC 60034-2-1,IEC 60034-2-1 |
| 854 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | DC & Universal Motors | Load Curve Test (Direct Torque Measurement Method) - Input Power at 200 A Range | IEC 60034-1 / IEC 60034-2-1,IEC 60034-2-1 |
| 855 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | DC & Universal Motors | Load Curve Test (Direct Torque Measurement Method) - Input Power at 50 A - Test | IEC 60034-1 / IEC 60034-2-1, IEC 60034-2-1 |
| 856 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | DC & Universal Motors | Load curve test (Direct Torque measurement method) - Input Power at 50 V | IEC 60034-1 / IEC 60034-2-1 , IEC 60034-2-1 |
| 857 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | DC & Universal Motors | Load curve test (Direct Torque measurement method) - Output power | IEC 60034-1 / IEC 60034-2-1,IEC 60034-2-1 |
| 858 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | DC & Universal Motors | Load curve test (Direct Torque measurement method) at 300 V Range - Current | IEC 60034-1 / IEC 60034-2-1,IEC 60034-2-1 |
| 859 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | DC & Universal Motors | Load curve test (Direct Torque measurement method) at 300 V Range - Input power | IEC 60034-1 / IEC 60034-2-1,IEC 60034-2-1 |
| 860 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | DC & Universal Motors | Load curve test (Direct Torque measurement method) at 50 V Range - Current | IEC 60034-1 / IEC 60034-2-1,IEC 60034-2-1 |
| 861 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | DC & Universal Motors | Load Curve Test (Direct Torque Measurement Method) output power | IEC 60034-1 / IEC 60034-2-1,IEC 60034-2-1 |
| 862 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | DC & Universal Motors | Load curve test (Direct Torque measurement method)- Speed | IEC 60034-1 / IEC 60034-2-1,IEC 60034-2-1 |
| 863 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | DC & Universal Motors | Load curve test (Direct Torque measurement method)- Torque | IEC 60034-1 / IEC 60034-2-1,IEC 60034-2-1 |
| 864 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | DC & Universal Motors | Load curve test (Direct Torque measurement method)-Voltage | IEC 60034-1 / IEC 60034-2-1,IEC 60034-2-1 |
| 865 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | DC & Universal Motors | Load curve test (Direct Torque measurement method)-Voltage | IEC 60034-1 / IEC 60034-2-1,IEC 60034-2-1 |
| 866 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | DC & Universal Motors | Momentary Excess Torque Test | IEC 60034-1 / IEC 60034-2-1,Cl. 9.4 of IEC 60034-1 Edition 14.0 |
| 867 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | DC & Universal Motors | No Load Test - Voltage DC | IEC 60034-1 / IEC 60034-2-1,Table 15 of IEC 60034-1 Edition 14.0 |

# SCOPE OF ACCREDITATION

**Laboratory Name :** SCIENTIFIC AND INDUSTRIAL TESTING AND RESEARCH CENTRE, 83 & 84 AVARAMPALAYAM ROAD, K.R.PURAM POST, COIMBATORE, TAMIL NADU, INDIA

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

**Certificate Number** TC-5324 **Page No** 54 of 93

**Validity** 31/03/2023 to 30/03/2025 **Last Amended on** 20/06/2023

| S.No | Discipline / Group | Materials or Products tested | Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed | Test Method Specification against which tests are performed and / or the techniques / equipment used |
|---|---|---|---|---|
| 868 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | DC & Universal Motors | No Load Test at 200 A Range - Input Power | IEC 60034-1 / IEC 60034-2-1,Table 15 of IEC 60034-1 Edition 14.0 |
| 869 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | DC & Universal Motors | No Load Test at 300 V Range - Input Power | IEC 60034-1 / IEC 60034-2-1,Table 15 of IEC 60034-1 Edition 14.0 |
| 870 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | DC & Universal Motors | No load test at 50 A Range - Input Power | IEC 60034-1 / IEC 60034-2-1,Table 15 of IEC 60034-1 Edition 14.0 |
| 871 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | DC & Universal Motors | No Load Test at 50 V Range - Current | IEC 60034-1 / IEC 60034-2-1,Table 15 of IEC 60034-1 Edition 14.0 |
| 872 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | DC & Universal Motors | No Load Test at 50 V Range - Input Power | IEC 60034-1 / IEC 60034-2-1,Table 15 of IEC 60034-1 Edition 14.0 |
| 873 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | DC & Universal Motors | No Load Test-Current | IEC 60034-1 / IEC 60034-2-1, Table 15 of IEC 60034-1 Edition 14.0 |
| 874 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | DC & Universal Motors | No Load Test-Speed | IEC 60034-1 / IEC 60034-2-1 Table 15 of IEC 60034-1 Edition 14.0 |
| 875 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | DC & Universal Motors | No Load Test-Voltage DC | IEC 60034-1 / IEC 60034-2-1,Table 15 of IEC 60034-1 Edition 14.0 |
| 876 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | DC & Universal Motors | Occasional Excess Current Test | IEC 60034-1 / IEC 60034-2-1, Cl. 9.3 of IEC 60034-1 Edition 14.0 |
| 877 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | DC & Universal Motors | Over Speed Test | IEC 60034-1 / IEC 60034-2-1 , Cl. 9.6 of IEC 60034-1 Edition 14.0 |
| 878 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | DC & Universal Motors | Protective Earthing | IEC 60034-1 / IEC 60034-2-1, Cl. 11.1 of IEC 60034-1 Edition 14.0 |
| 879 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | DC & Universal Motors | Temperature Measurement-Winding Temperature measurement | IEC 60034-1 / IEC 60034-2-1,Cl. 5.7.2 of IEC 60034-2-1 |
| 880 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | DC & Universal Motors | Terminal Marking | IEC 60034-1 / IEC 60034-2-1, IEC 60034-8 |
| 881 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | DC & Universal Motors | Winding Resistance Measurement- Winding resistance | IEC 60034-1 / IEC 60034-2-1, Cl. 5.7 of IEC 60034-2-1 |

# SCOPE OF ACCREDITATION

**Laboratory Name :** SCIENTIFIC AND INDUSTRIAL TESTING AND RESEARCH CENTRE, 83 & 84 AVARAMPALAYAM ROAD, K.R.PURAM POST, COIMBATORE, TAMIL NADU, INDIA

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

**Certificate Number** TC-5324 **Page No** 55 of 93

**Validity** 31/03/2023 to 30/03/2025 **Last Amended on** 20/06/2023

| S.No | Discipline / Group | Materials or Products tested | Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed | Test Method Specification against which tests are performed and / or the techniques / equipment used |
|---|---|---|---|---|
| 882 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | DC & Universal Motors | With Stand Voltage Test - High Voltage Test | IEC 60034-1 / IEC 60034-2-1 ,Cl. 9.2 of IEC 60034-1 Edition 14.0 |
| 883 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | DC & Universal Motors | With Stand Voltage Test - High Voltage Test | IEC 60034-1 / IEC 60034-2-1, Cl. 9.2 of IEC 60034-1 Edition 14.0 |
| 884 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Degrees of protection provided by the integral design of rotating electrical machines (IP CODE) - Classification | Degrees of protection - Second characteristic Numeral | Cl.5, 9 IS/IEC 60034-5 |
| 885 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Degrees of protection provided by the integral design of rotating electrical machines (IP CODE) - Classification | Degrees of protection provided - First Characteristics Numeral | Cl. 4,8 IS/IEC 60034-5 |
| 886 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Degrees of protection provided by the integral design of rotating electrical machines (IP CODE) - Classification | Marking | Cl. 6 IS/IEC 60034-5 |
| 887 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Electric monoset pumps for Clear, cold water for agriculture and water supply purpose, (up to & including 40 kW for three phase motors, upto & including 2.2 kW for single phase motors) | Pump Performance - Power | Cl.13 IS 9079 |
| 888 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Electric monoset pumps for Clear, cold water for agriculture and water supply purpose, (upto & including 40 kW for three phase motors, upto & including 2.2 kW for single phase motors) | Insulation resistance test @ 500 V DC | Cl 11.2 IS 9079 |
| 889 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Electric monoset pumps for Clear, cold water for agriculture and water supply purpose, (upto & including 40 kW for three phase motors, upto & including 2.2 kW for single phase motors) | Locked rotor test - Current | Cl 11.5 IS 9079 |
| 890 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Electric monoset pumps for Clear, cold water for agriculture and water supply purpose, (upto & including 40 kW for three phase motors, upto & including 2.2 kW for single phase motors) | Locked rotor test - Torque | Cl 11.5 IS 9079 |
| 891 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Electric monoset pumps for Clear, cold water for agriculture and water supply purpose, (upto & including 40 kW for three phase motors, upto & including 2.2 kW for single phase motors) | No load test - Current | Cl 11.8.1d IS 9079 |
| 892 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Electric monoset pumps for Clear, cold water for agriculture and water supply purpose, (upto & including 40 kW for three phase motors, upto & including 2.2 kW for single phase motors) | No load test - Frequency | Cl 11.8.1d IS 9079 |
| 893 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Electric monoset pumps for Clear, cold water for agriculture and water supply purpose, (upto & including 40 kW for three phase motors, upto & including 2.2 kW for single phase motors) | No load test - Input power | Cl 11.8.1d IS 9079 |

# SCOPE OF ACCREDITATION

| | | | |
|---|---|---|---|
| **Laboratory Name :** | SCIENTIFIC AND INDUSTRIAL TESTING AND RESEARCH CENTRE, 83 & 84 AVARAMPALAYAM ROAD, K.R.PURAM POST, COIMBATORE, TAMIL NADU, INDIA | | |
| **Accreditation Standard** | ISO/IEC 17025:2017 | | |
| **Certificate Number** | TC-5324 | **Page No** | 56 of 93 |
| **Validity** | 31/03/2023 to 30/03/2025 | **Last Amended on** | 20/06/2023 |

| S.No | Discipline / Group | Materials or Products tested | Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed | Test Method Specification against which tests are performed and / or the techniques / equipment used |
|---|---|---|---|---|
| 894 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Electric monoset pumps for Clear, cold water for agriculture and water supply purpose, (upto & including 40 kW for three phase motors, upto & including 2.2 kW for single phase motors) | No load test - Speed | Cl 11.8.1d IS 9079 |
| 895 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Electric monoset pumps for Clear, cold water for agriculture and water supply purpose, (upto & including 40 kW for three phase motors, upto & including 2.2 kW for single phase motors) | No load Test - Voltage | Cl 11.8.1d IS 9079 |
| 896 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Electric monoset pumps for Clear, cold water for agriculture and water supply purpose, (upto & including 40 kW for three phase motors, upto & including 2.2 kW for single phase motors) | Pump Performance test - Current | Cl.13 IS 9079 |
| 897 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Electric monoset pumps for Clear, cold water for agriculture and water supply purpose, (upto & including 40 kW for three phase motors, upto & including 2.2 kW for single phase motors) | Pump Performance test - Efficiency | Cl.13 IS 9079 |
| 898 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Electric monoset pumps for Clear, cold water for agriculture and water supply purpose, (upto & including 40 kW for three phase motors, upto & including 2.2 kW for single phase motors) | Pump Performance test - Head | Cl.13 IS 9079 |
| 899 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Electric monoset pumps for Clear, cold water for agriculture and water supply purpose, (upto & including 40 kW for three phase motors, upto & including 2.2 kW for single phase motors) | Pump Performance test - Hydrostatic Pressure test | Cl.12.6 IS 9079 |
| 900 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Electric monoset pumps for Clear, cold water for agriculture and water supply purpose, (upto & including 40 kW for three phase motors, upto & including 2.2 kW for single phase motors) | Pump Performance test - Pipe size | Cl.13 IS 9079 |
| 901 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Electric monoset pumps for Clear, cold water for agriculture and water supply purpose, (upto & including 40 kW for three phase motors, upto & including 2.2 kW for single phase motors) | Pump Performance test- Flow | Cl.13,IS 9079 |
| 902 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Electric monoset pumps for Clear, cold water for agriculture and water supply purpose, (upto & including 40 kW for three phase motors, upto & including 2.2 kW for single phase motors) | Reduced voltage running up test-speed | Cl 11.7.e IS 9079 |
| 903 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Electric monoset pumps for Clear, cold water for agriculture and water supply purpose, (upto & including 40 kW for three phase motors, upto & including 2.2 kW for single phase motors) | Resistance of winding - Resistance | Cl 11.8.1 a IS 9079 |
| 904 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Electric monoset pumps for Clear, cold water for agriculture and water supply purpose, (upto & including 40 kW for three phase motors, upto & including 2.2 kW for single phase motors) | Resistance of winding - Resistance | Cl 11.8.1.a IS 9079 |

# SCOPE OF ACCREDITATION

| | | | |
|---|---|---|---|
| **Laboratory Name :** | SCIENTIFIC AND INDUSTRIAL TESTING AND RESEARCH CENTRE, 83 & 84 AVARAMPALAYAM ROAD, K.R.PURAM POST, COIMBATORE, TAMIL NADU, INDIA | | |
| **Accreditation Standard** | ISO/IEC 17025:2017 | | |
| **Certificate Number** | TC-5324 | **Page No** | 57 of 93 |
| **Validity** | 31/03/2023 to 30/03/2025 | **Last Amended on** | 20/06/2023 |

| S.No | Discipline / Group | Materials or Products tested | Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed | Test Method Specification against which tests are performed and / or the techniques / equipment used |
|---|---|---|---|---|
| 905 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Electric monoset pumps for Clear, cold water for agriculture and water supply purpose, (upto & including 40 kW for three phase motors, upto & including 2.2 kW for single phase motors) | Temperature rise test - temperature | Cl 11.4 IS 9079 |
| 906 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Electric monoset pumps for Clear, cold water for agriculture and water supply purpose, (upto & including 40 kW for three phase motors, upto & including 2.2 kW for single phase motors) | Terminal markings | Cl 10.6 IS 9079 |
| 907 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Electric monoset pumps for Clear, cold water for agriculture and water supply purpose, (upto & including 40 kW for three phase motors, upto & including 2.2kW for single phase motors) | Constructional Features | Cl 7 IS 9079 |
| 908 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Electric monoset pumps for Clear, cold water for agriculture and water supply purpose, (upto & including 40 kW for three phase motors, upto & including 2.2kW for single phase motors) | Design Features | Cl 9 IS 9079 |
| 909 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Electric monoset pumps for Clear, cold water for agriculture and water supply purpose, (upto & including 40 kW for three phase motors, upto & including 2.2kW for single phase motors) | Earthing | Cl 10.5 IS 9079 |
| 910 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Electric monoset pumps for Clear, cold water for agriculture and water supply purpose, (upto & including 40 kW for three phase motors, upto & including 2.2kW for single phase motors) | General Requirements | Cl 10 IS 9079 |
| 911 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Electric monoset pumps for Clear, cold water for agriculture and water supply purpose, (upto & including 40 kW for three phase motors, upto & including 2.2kW for single phase motors) | Marking / Rating plate | Cl 15 IS 9079 |
| 912 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Household and Similar Electrical Appliances - Safety (Particular requirements for Pumps) | Functional Test | IEC 60335 - 2 - 41 ,Cl. 27, IEC 60335-1 Edition 6.0 |
| 913 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Household and Similar Electrical Appliances - Safety (Particular requirements for Pumps) | Insulation Resistance Test | IEC 60335-2-41 Edition 4.0 2012-12: 2012 / IEC 60335-1 Edition 6.0 |
| 914 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Household and Similar Electrical Appliances - Safety (Particular requirements for Pumps) | Leakage current Test-Current | IEC 60335 - 2 - 41 ,Cl. 13& 16 of IEC 60335-1 Edition 6.0 |
| 915 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Household and Similar Electrical Appliances - Safety (Particular requirements for Pumps) | Load & Heating Test - Current | IEC 60335-2-41 Edition 4.0 2012-12,Cl. 10, Table 1, Cl. 11, Cl. 19 of IEC 60335-1 Edition 6.0, IEC 60034-1 Edition 14.0 : 2022 |

# SCOPE OF ACCREDITATION

**Laboratory Name :** SCIENTIFIC AND INDUSTRIAL TESTING AND RESEARCH CENTRE, 83 & 84 AVARAMPALAYAM ROAD, K.R.PURAM POST, COIMBATORE, TAMIL NADU, INDIA

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

**Certificate Number** TC-5324 **Page No** 58 of 93

**Validity** 31/03/2023 to 30/03/2025 **Last Amended on** 20/06/2023

| S.No | Discipline / Group | Materials or Products tested | Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed | Test Method Specification against which tests are performed and / or the techniques / equipment used |
|---|---|---|---|---|
| 916 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Household and Similar Electrical Appliances - Safety (Particular requirements for Pumps) | Load & Heating Test - power factor | IEC 60335-2-41 Edition 4.0 2012-12,Cl. 10, Table 1, Cl. 11, Cl. 19 of IEC 60335-1 Edition 6.0, IEC 60034-1 Edition 14.0 : 2022 |
| 917 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Household and Similar Electrical Appliances - Safety (Particular requirements for Pumps) | Load & Heating Test - Voltage | IEC 60335-2-41 Edition 4.0 2012-12,Cl. 10, Table 1, Cl. 11, Cl. 19 of IEC 60335-1 Edition 6.0, IEC 60034-1 Edition 14.0:2022 |
| 918 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Household and Similar Electrical Appliances - Safety (Particular requirements for Pumps) | Load & Heating Test-Output Power | IEC 60335-2-41 Edition 4.0 2012-12,Cl. 10, Table 1, Cl. 11, Cl. 19 of IEC 60335-1 Edition 6.0, IEC 60034-1 Edition 14.0:2022 |
| 919 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Household and Similar Electrical Appliances - Safety (Particular requirements for Pumps) | Load & Heating Test-Torque | IEC 60335-2-41 Edition 4.0 2012-12,Cl. 10, Table 1, Cl. 11, Cl. 19 of IEC 60335-1 Edition 6.0, IEC 60034-1 Edition 14.0:2022 |
| 920 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Household and Similar Electrical Appliances - Safety (Particular requirements for Pumps) | Load &heating Test-Efficiency | IEC 60335-2-41 Edition 4.0 2012-12,Cl. 10, Table 1, Cl. 11, Cl. 19 of IEC 60335-1 Edition 6.0, IEC 60034-1 Edition 14.0:2022 |
| 921 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Household and Similar Electrical Appliances - Safety (Particular requirements for Pumps) | Load / Heating Test-Pump performance Test-Current | IEC 60335-2-41 Edition 4.0 |
| 922 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Household and Similar Electrical Appliances - Safety (Particular requirements for Pumps) | Load / Heating Test-Pump performance Test-Flow | IEC 60335-2-41 Edition 4.0 2012-12 / IEC 60335-1 Edition 6.0 |
| 923 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Household and Similar Electrical Appliances - Safety (Particular requirements for Pumps) | Load / Heating Test-Pump performance Test-Head | IEC 60335-2-41 Edition 4.0 |
| 924 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Household and Similar Electrical Appliances - Safety (Particular requirements for Pumps) | Load / Heating Test-Pump performance Test-power | IEC 60335-2-41 Edition 4.0 |
| 925 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Household and Similar Electrical Appliances - Safety (Particular requirements for Pumps) | Marking& Instructions | Cl. 7 of IEC 60335-2-41 Edition 4.0 2012-12 & Cl. 7 of IEC 60335-1 Edition 6.0 |
| 926 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Household and Similar Electrical Appliances - Safety (Particular requirements for Pumps) | Moisture Resistance test - Relative Humidity | IEC 60335 - 2 - 41 ,Cl. 15 of IEC 60335-1 Edition 6.0 |
| 927 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Household and Similar Electrical Appliances - Safety (Particular requirements for Pumps) | No load Test - Current | IEC 60335-2-41 Edition 4.0 2012-12 / IEC 60335-1 Edition 6.0,IEC 60034-1 Edition 14.0:2022 |

# SCOPE OF ACCREDITATION

**Laboratory Name :** SCIENTIFIC AND INDUSTRIAL TESTING AND RESEARCH CENTRE, 83 & 84 AVARAMPALAYAM ROAD, K.R.PURAM POST, COIMBATORE, TAMIL NADU, INDIA

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

**Certificate Number** TC-5324 **Page No** 59 of 93

**Validity** 31/03/2023 to 30/03/2025 **Last Amended on** 20/06/2023

| S.No | Discipline / Group | Materials or Products tested | Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed | Test Method Specification against which tests are performed and / or the techniques / equipment used |
|---|---|---|---|---|
| 928 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Household and Similar Electrical Appliances - Safety (Particular requirements for Pumps) | No load test - Frequency | IEC 60335-2-41 Edition 4.0 2012-12 / IEC 60335-1 Edition 6.0, IEC 60034-1 Edition 14.0:2022 |
| 929 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Household and Similar Electrical Appliances - Safety (Particular requirements for Pumps) | No load test - Input Power | IEC 60335-2-41 Edition 4.0 2012-12 / IEC 60335-1 Edition 6.0, IEC 60034-1 Edition 14.0:2022 |
| 930 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Household and Similar Electrical Appliances - Safety (Particular requirements for Pumps) | No load test - Speed | IEC 60335-2-41 Edition 4.0 2012-12 / IEC 60335-1 Edition 6.0, IEC 60034-1 Edition 14.0:2022 |
| 931 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Household and Similar Electrical Appliances - Safety (Particular requirements for Pumps) | No load test - Voltage | IEC 60335-2-41 Edition 4.0 2012-12 / IEC 60335-1 Edition 6.0, IEC 60034-1 Edition 14.0:2022 |
| 932 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Household and Similar Electrical Appliances - Safety (Particular requirements for Pumps) | Winding Resistance Measurement - Resistance | Cl. 11.3 of IEC 60335-1 Edition 6.0 |
| 933 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Household and Similar Electrical Appliances - Safety (Particular requirements for Pumps) | With Stand Voltage Test - Voltage | IEC 60335-2-41 Edition 4.0 2012-12 / IEC 60335-1 Edition 6.0, IEC 60034-1 Edition 14.0:2022 |
| 934 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Household and Similar Electrical Appliances - Safety (Particular requirements for Pumps) | Withstand Voltage Test - Current | IEC 60335-2-41 Edition 4.0 2012-12 / IEC 60335-1 Edition 6.0, IEC 60034-1 Edition 14.0:2022 |
| 935 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Household and Similar Electrical Appliances-Safety (General Requirements) | Direction of Rotation | IEC 60335 -1,Cl. 7 of IEC 60335-2-41 Edition 4.0 2012-12 |
| 936 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Household and Similar Electrical Appliances-Safety (General Requirements) | Earth& Earth Continuity Test | Cl. 27, Annex A.1 of IEC 60335-1 Edition 6.0 |
| 937 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Household and Similar Electrical Appliances-Safety (General Requirements) | Earth& Earth Continuity Test | Cl. 27, Annex A.1 of IEC 60335-1Edition 6.0 |
| 938 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Household and Similar Electrical Appliances-Safety (General Requirements) | Electric Strength Test High Voltage Test | Cl. 13, Table 4, Cl. 16, Table 7, Annex A.2 of IEC 60335-1 Edition 6.0 |
| 939 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Household and Similar Electrical Appliances-Safety (General Requirements) | Electric Strength Test High Voltage Test | Cl. 13, Table 4, Cl. 16, Table 7, Annex A.2 of IEC 60335-1 Edition 6.0 |
| 940 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Household and Similar Electrical Appliances-Safety (General Requirements) | Functional Test | Annex A.3 of IEC 60335-1 Edition 6.0 |

# SCOPE OF ACCREDITATION

**Laboratory Name :** SCIENTIFIC AND INDUSTRIAL TESTING AND RESEARCH CENTRE, 83 & 84 AVARAMPALAYAM ROAD, K.R.PURAM POST, COIMBATORE, TAMIL NADU, INDIA

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

**Certificate Number** TC-5324 **Page No** 60 of 93

**Validity** 31/03/2023 to 30/03/2025 **Last Amended on** 20/06/2023

| S.No | Discipline / Group | Materials or Products tested | Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed | Test Method Specification against which tests are performed and / or the techniques / equipment used |
|---|---|---|---|---|
| 941 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Household and Similar Electrical Appliances-Safety (General Requirements) | Insulation Resistance measurement test -Insulation Resistance | IEC 60335-1 Edition 6.0 |
| 942 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Household and Similar Electrical Appliances-Safety (General Requirements) | Leakage current Test Current | Cl. 13& 16 of IEC 60335-1 Edition 6.0 |
| 943 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Household and Similar Electrical Appliances-Safety (General Requirements) | Leakage current Test Current | Cl. 13& 16 of IEC 60335-1 Edition 6.0 |
| 944 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Household and Similar Electrical Appliances-Safety (General Requirements) | Load & Heating Test (Pump Performance Test) - Current | IEC 60335-2-41 Edition 4.0 2012-12 / IEC 60335-1 Edition 6.0 |
| 945 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Household and Similar Electrical Appliances-Safety (General Requirements) | Load & Heating Test (Pump performance Test) - Head | IEC 60335-2-41 Edition 4.0 2012-12 / IEC 60335-1 Edition 6.0 |
| 946 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Household and Similar Electrical Appliances-Safety (General Requirements) | Load & Heating Test (Pump Performance Test) - Power | IEC 60335-2-41 Edition 4.0 2012-12 / IEC 60335-1 Edition 6.0 |
| 947 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Household and Similar Electrical Appliances-Safety (General Requirements) | Load / Heating Test Pump performance Test - Flow | IEC 60335-2-41 Edition 4.0 2012-12 / IEC 60335-1 Edition 6.0 |
| 948 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Household and Similar Electrical Appliances-Safety (General Requirements) | Load&Heating Test - Efficiency | IEC 60335 -1 ,IEC 60335-2-41 Edition 4.0 2012-12,Cl. 10, Table 1, Cl. 11, Cl. 19 of IEC 60335-1 Edition 6.0, IEC 60034-1 Edition 14.0:2022 |
| 949 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Household and Similar Electrical Appliances-Safety (General Requirements) | Load&Heating Test - Speed | IEC 60335 -1 , IEC 60335 -2-41 Edition 4.0 2012-12,Cl. 10, Table 1, Cl. 11, Cl. 19 of IEC 60335-1 Edition 6.0, IEC 60034-1 Edition 14.0:2022 |
| 950 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Household and Similar Electrical Appliances-Safety (General Requirements) | Load&Heating Test -Current | IEC 60335 -1 ,IEC 60335-2-41 Edition 4.0 2012-12,Cl. 10, Table 1, Cl. 11, Cl. 19 of IEC 60335-1 Edition 6.0, IEC 60034-1 Edition 14.0:2022 |
| 951 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Household and Similar Electrical Appliances-Safety (General Requirements) | Load&Heating Test -Frequency | IEC 60335 -1 , IEC 60335-2-41 Edition 4.0 2012-12,Cl. 10, Table 1, Cl. 11, Cl. 19 of IEC 60335-1 Edition 6.0, IEC 60034-1 Edition 14.0:2022 |

# SCOPE OF ACCREDITATION

**Laboratory Name :** SCIENTIFIC AND INDUSTRIAL TESTING AND RESEARCH CENTRE, 83 & 84 AVARAMPALAYAM ROAD, K.R.PURAM POST, COIMBATORE, TAMIL NADU, INDIA

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

**Certificate Number** TC-5324 **Page No** 61 of 93

**Validity** 31/03/2023 to 30/03/2025 **Last Amended on** 20/06/2023

| S.No | Discipline / Group | Materials or Products tested | Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed | Test Method Specification against which tests are performed and / or the techniques / equipment used |
|---|---|---|---|---|
| 952 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Household and Similar Electrical Appliances-Safety (General Requirements) | Load&Heating Test -Output power | IEC 60335 -1, IEC 60335-2-41 Edition 4.0 2012-12,Cl. 10, Table 1, Cl. 11, Cl. 19 of IEC 60335-1 Edition 6.0, IEC 60034-1 Edition 14.0:2022 |
| 953 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Household and Similar Electrical Appliances-Safety (General Requirements) | Load&Heating Test -Voltage | IEC 60335 -1 , IEC 60335-2-41 Edition 4.0 2012-12,Cl. 10, Table 1, Cl. 11, Cl. 19 of IEC 60335-1 Edition 6.0, IEC 60034-1 Edition 14.0:2022 |
| 954 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Household and Similar Electrical Appliances-Safety (General Requirements) | Moisture Resistance test-Relative Humidity | Cl. 15 of IEC 60335-1 Edition 6.0 |
| 955 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Household and Similar Electrical Appliances-Safety (General Requirements) | Moisture Resistance test-Temperature | Cl. 15 of IEC 60335-1 Edition 6.0 |
| 956 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Household and Similar Electrical Appliances-Safety (General Requirements) | No load test - Frequency | IEC 60335 -1 , IEC 60335-2-41 Edition 4.0 2012-12 / IEC 60335-1 Edition 6.0, IEC 60034-1 Edition 14.0:2022 |
| 957 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Household and Similar Electrical Appliances-Safety (General Requirements) | No Load Test - Input power | IEC 60335 -1 ,IEC 60335-2-41 Edition 4.0 2012-12 / IEC 60335-1 Edition 6.0, IEC 60034-1 Edition 14.0:2022 |
| 958 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Household and Similar Electrical Appliances-Safety (General Requirements) | No load test - Speed | IEC 60335 -1 ,IEC 60335-2-41 Edition 4.0 2012-12 / IEC 60335-1 Edition 6.0, IEC 60034-1 Edition 14.0:2022 |
| 959 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Household and Similar Electrical Appliances-Safety (General Requirements) | Temperature Measurement Temperature measurement using resistance method | IEC 60335 -1, Cl. 5.7.2, Table 8, Cl. 19 of IEC 60034-2-1 |
| 960 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Household and Similar Electrical Appliances-Safety (General Requirements) | Winding Resistance Measurement - Winding resistance | Cl. 11.3 of IEC 60335-1 Edition 6.0 |
| 961 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Household and Similar Electrical Appliances-Safety (General Requirements) | Winding Resistance Measurement-Winding resistance | Cl. 11.3 of IEC 60335-1 Edition 6.0 |
| 962 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Household and Similar Electrical Appliances-Safety (General Requirements) | With Stand Voltage Test - Current | IEC 60335-2-41 Edition 4.0 2012-12 / IEC 60335-1 Edition 6.0, IEC 60034-1 Edition 14.0:2022 |
| 963 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Household and Similar Electrical Appliances-Safety (General Requirements) | With Stand Voltage Test-Voltage | IEC 60335-2-41 Edition 4.0 2012-12 / IEC 60335-1 Edition 6.0, IEC 60034-1 Edition 14.0:2022 |

# SCOPE OF ACCREDITATION

**Laboratory Name :** SCIENTIFIC AND INDUSTRIAL TESTING AND RESEARCH CENTRE, 83 & 84 AVARAMPALAYAM ROAD, K.R.PURAM POST, COIMBATORE, TAMIL NADU, INDIA

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

**Certificate Number** TC-5324 **Page No** 62 of 93

**Validity** 31/03/2023 to 30/03/2025 **Last Amended on** 20/06/2023

| S.No | Discipline / Group | Materials or Products tested | Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed | Test Method Specification against which tests are performed and / or the techniques / equipment used |
|---|---|---|---|---|
| 964 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Household Appliances and Similar Electrical Safety (General Requirements) | No load Test -Current | IEC 60335-1, IEC 60335-2-41 Edition 4.0 2012-12 / IEC 60335-1 Edition 6.0, IEC 60034-1 Edition 14.0:2022 |
| 965 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | IS 12225:1997 Centrifugal jet pump, upto & including 15 kW for three phase motors, (upto & including 1500 W for single phase motors) | No load Test - Frequency | Cl 5.2 IS 12225 |
| 966 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | IS 12225:1997 Centrifugal jet pump, upto & including 15 kW for three phase motors, (upto & including 1500 W for single phase motors) | No load Test - Input Power | Cl 5.2 IS 12225 |
| 967 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | IS 12225:1997 Centrifugal jet pump, upto & including 15 kW for three phase motors, (upto & including 1500 W for single phase motors) | No load Test - Speed | Cl 5.2 IS 12225 |
| 968 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | IS 12225:1997 Centrifugal jet pump, upto & including 15 kW for three phase motors, (upto & including 1500 W for single phase motors) | No load Test - Voltage | Cl 5.2 IS 12225 |
| 969 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | IS 12225:1997 Centrifugal jet pump, upto & including 15 kW for three phase motors, (upto & including 1500 W for single phase motors) | Pump Performance - Head | Cl.8 IS 12225 |
| 970 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | IS 12225:1997 Centrifugal jet pump, upto & including 15 kW for three phase motors, (upto & including 1500 W for single phase motors) | Pump Performance test - Current | Cl.8 IS 12225 |
| 971 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | IS 12225:1997 Centrifugal jet pump, upto & including 15 kW for three phase motors, (upto & including 1500 W for single phase motors) | Pump Performance test - Efficiency | Cl.8 IS 12225 |
| 972 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | IS 12225:1997 Centrifugal jet pump, upto & including 15 kW for three phase motors, (upto & including 1500 W for single phase motors) | Pump Performance test - Flow | Cl.8, IS 12225 |
| 973 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | IS 12225:1997 Centrifugal jet pump, upto & including 15 kW for three phase motors, (upto & including 1500 W for single phase motors) | Pump performance test - Hydrostatic test | Cl 9.3,IS 12225 |
| 974 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | IS 12225:1997 Centrifugal jet pump, upto & including 15 kW for three phase motors, (upto & including 1500 W for single phase motors) | Pump Performance test - Pipe Size | Cl.8 IS 12225 |
| 975 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | IS 12225:1997 Centrifugal jet pump, upto & including 15 kW for three phase motors, (upto & including 1500 W for single phase motors) | Pump Performance test - Power | Cl.8 ,IS 12225 |
| 976 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | IS 12225:1997 Centrifugal jet pump, upto & including 15 kW for three phase motors, (upto & including 1500 W for single phase motors) | Reduced Voltage Running up Test - Speed | Cl 5.2 IS 12225 |

# SCOPE OF ACCREDITATION

| | | | |
|---|---|---|---|
| **Laboratory Name :** | SCIENTIFIC AND INDUSTRIAL TESTING AND RESEARCH CENTRE, 83 & 84 AVARAMPALAYAM ROAD, K.R.PURAM POST, COIMBATORE, TAMIL NADU, INDIA | | |
| **Accreditation Standard** | ISO/IEC 17025:2017 | | |
| **Certificate Number** | TC-5324 | **Page No** | 63 of 93 |
| **Validity** | 31/03/2023 to 30/03/2025 | **Last Amended on** | 20/06/2023 |

| S.No | Discipline / Group | Materials or Products tested | Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed | Test Method Specification against which tests are performed and / or the techniques / equipment used |
|---|---|---|---|---|
| 977 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | IS 12225:1997 Centrifugal jet pump, upto & including 15 kW for three phase motors, (upto & including 1500 W for single phase motors) | Resistance of Winding - Resistance | Cl 5.2 IS 12225 |
| 978 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | IS 12225:1997 Centrifugal jet pump, upto & including 15 kW for three phase motors, (upto & including 1500 W for single phase motors) | Resistance of Winding - Resistance | Cl 5.2 IS 12225 |
| 979 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | IS 12225:1997 Centrifugal jet pump, upto & including 15 kW for three phase motors, (upto & including 1500 W for single phase motors) | Temperature Rise Test - Temperature | Cl 5.2.1 IS 12225 |
| 980 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | IS 12225:1997 Centrifugal jet pump, upto & including 15 kW for three phase motors, (upto & including 1500 W for single phase motors) | Terminal Markings | Cl 5.2 IS 12225 |
| 981 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | IS 9079:2018 Electric mono set pumps for Clear, cold water for agriculture and water supply purpose, (up to & including 40 kW for three phase motors, up to & including 2.2 kW for single phase motors) | Type of Enclosures | Cl 11.1.1 IS 9079 |
| 982 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | IS 9079:2018 Electric monoset pumps for Clear, cold water for agriculture and water supply purpose, (upto & including 40 kW for three phase motors, upto & including 2.2 kW for single phase motors) | Direction of rotation | Cl 10.6 IS 9079 |
| 983 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | IS 9079:2018 Electric monoset pumps for Clear, cold water for agriculture and water supply purpose, (upto & including 40 kW for three phase motors, upto & including 2.2 kW for single phase motors) | High Voltage Test - Current | Cl 11.3 IS 9079 |
| 984 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | IS 9079:2018 Electric monoset pumps for Clear, cold water for agriculture and water supply purpose, (upto & including 40 kW for three phase motors, upto & including 2.2 kW for single phase motors) | High voltage test - Voltage | Cl 11.3 IS 9079 |
| 985 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Line Operated Three Phase AC Induction Motor (IE Code) "Efficiency Classes and Performance Specifications" (Upto & including 140 kW) | Degree Of Protection By Enclosure | 16.3.3, IS/IEC 60034-5 |
| 986 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Line Operated Three Phase AC Induction Motor (IE Code) "Efficiency Classes and Performance Specifications" (Upto & including 140 kW) | Dimensions - Test | Cl 16.2.1 IS 12615 |
| 987 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Line Operated Three Phase AC Induction Motor (IE Code) "Efficiency Classes and Performance Specifications" (Upto & including 140 kW) | Dimensions - Test | Cl 16.2.1 IS 12615 |
| 988 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Line Operated Three Phase AC Induction Motor (IE Code) "Efficiency Classes and Performance Specifications" (Upto & including 140 kW) | Dimensions - Test | Cl 16.2.1 IS 12615 |

# SCOPE OF ACCREDITATION

**Laboratory Name :** SCIENTIFIC AND INDUSTRIAL TESTING AND RESEARCH CENTRE, 83 & 84 AVARAMPALAYAM ROAD, K.R.PURAM POST, COIMBATORE, TAMIL NADU, INDIA

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

**Certificate Number** TC-5324 **Page No** 64 of 93

**Validity** 31/03/2023 to 30/03/2025 **Last Amended on** 20/06/2023

| S.No | Discipline / Group | Materials or Products tested | Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed | Test Method Specification against which tests are performed and / or the techniques / equipment used |
|---|---|---|---|---|
| 989 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Line Operated Three Phase AC Induction Motor (IE Code) "Efficiency Classes and Performance Specifications" (Upto & including 140 kW) | Direction of Rotation | Cl 9 IS 12615 |
| 990 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Line Operated Three Phase AC Induction Motor (IE Code) "Efficiency Classes and Performance Specifications" (Upto & including 140 kW) | Earthing | Cl 8 IS 12615 |
| 991 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Line Operated Three Phase AC Induction Motor (IE Code) "Efficiency Classes and Performance Specifications" (Upto & including 140 kW) | High Voltage Test - Current | Cl 16.1.6 IS 12615 |
| 992 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Line Operated Three Phase AC Induction Motor (IE Code) "Efficiency Classes and Performance Specifications" (Upto & including 140 kW) | High Voltage Test - Voltage | Cl 16.1.6 IS 12615 |
| 993 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Line Operated Three Phase AC Induction Motor (IE Code) "Efficiency Classes and Performance Specifications" (Upto & including 140 kW) | Insulation Resistance Test at 500 V DC - Resistance | Cl 16.1.1 IS 12615 |
| 994 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Line Operated Three Phase AC Induction Motor (IE Code) "Efficiency Classes and Performance Specifications" (Upto & including 140 kW) | Load Test - Current | Cl 16.2.3 IS 12615 |
| 995 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Line Operated Three Phase AC Induction Motor (IE Code) "Efficiency Classes and Performance Specifications" (Upto & including 140 kW) | Load Test - Efficiency | Cl 16.2.3 IS 12615 |
| 996 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Line Operated Three Phase AC Induction Motor (IE Code) "Efficiency Classes and Performance Specifications" (Upto & including 140 kW) | Load Test - Frequency | Cl 16.2.3 IS 12615 |
| 997 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Line Operated Three Phase AC Induction Motor (IE Code) "Efficiency Classes and Performance Specifications" (Upto & including 140 kW) | Load Test - Input Power | Cl 16.2.3 IS 12615 |
| 998 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Line Operated Three Phase AC Induction Motor (IE Code) "Efficiency Classes and Performance Specifications" (Upto & including 140 kW) | Load Test - Load Torque | Cl 16.2.3 IS 12615 |
| 999 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Line Operated Three Phase AC Induction Motor (IE Code) "Efficiency Classes and Performance Specifications" (Upto & including 140 kW) | Load Test - Power Factor | Cl 16.2.3 IS 12615 |
| 1000 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Line Operated Three Phase AC Induction Motor (IE Code) "Efficiency Classes and Performance Specifications" (Upto & including 140 kW) | Load Test - Voltage | Cl 16.2.3 IS 12615 |
| 1001 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Line Operated Three Phase AC Induction Motor (IE Code) "Efficiency Classes and Performance Specifications" (Upto & including 140 kW) | Locked Rotor Test - Current | Cl 16.2.2 IS 12615 |
| 1002 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Line Operated Three Phase AC Induction Motor (IE Code) "Efficiency Classes and Performance Specifications" (Upto & including 140 kW) | Locked Rotor Test - Torque | Cl 16.2.2 IS 12615 |

# SCOPE OF ACCREDITATION

| | | | |
|---|---|---|---|
| **Laboratory Name :** | SCIENTIFIC AND INDUSTRIAL TESTING AND RESEARCH CENTRE, 83 & 84 AVARAMPALAYAM ROAD, K.R.PURAM POST, COIMBATORE, TAMIL NADU, INDIA | | |
| **Accreditation Standard** | ISO/IEC 17025:2017 | | |
| **Certificate Number** | TC-5324 | **Page No** | 65 of 93 |
| **Validity** | 31/03/2023 to 30/03/2025 | **Last Amended on** | 20/06/2023 |

| S.No | Discipline / Group | Materials or Products tested | Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed | Test Method Specification against which tests are performed and / or the techniques / equipment used |
|---|---|---|---|---|
| 1003 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Line Operated Three Phase AC Induction Motor (IE Code) "Efficiency Classes and Performance Specifications" (Upto & including 140 kW) | Marking / Rating plate | Cl 18 IS 12615 |
| 1004 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Line Operated Three Phase AC Induction Motor (IE Code) "Efficiency Classes and Performance Specifications" (Upto & including 140 kW) | Method of Cooling | Cl 6 IS 12615 |
| 1005 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Line Operated Three Phase AC Induction Motor (IE Code) "Efficiency Classes and Performance Specifications" (Upto & including 140 kW) | Momentary Overload Test - Torque | Cl 16.2.5 IS 12615 |
| 1006 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Line Operated Three Phase AC Induction Motor (IE Code) "Efficiency Classes and Performance Specifications" (Upto & including 140 kW) | No load Test - Current | Cl 16.1.3 IS 12615 |
| 1007 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Line Operated Three Phase AC Induction Motor (IE Code) "Efficiency Classes and Performance Specifications" (Upto & including 140 kW) | No load test - Frequency | Cl 16.1.3 IS 12615 |
| 1008 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Line Operated Three Phase AC Induction Motor (IE Code) "Efficiency Classes and Performance Specifications" (Upto & including 140 kW) | No load Test - Input Power | Cl 16.1.3. IS 12615 |
| 1009 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Line Operated Three Phase AC Induction Motor (IE Code) "Efficiency Classes and Performance Specifications" (Upto & including 140 kW) | No load test - Speed | Cl 16.1.3 IS 12615 |
| 1010 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Line Operated Three Phase AC Induction Motor (IE Code) "Efficiency Classes and Performance Specifications" (Upto & including 140 kW) | No load Test - Voltage | Cl 16.1.3 IS 12615 |
| 1011 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Line Operated Three Phase AC Induction Motor (IE Code) "Efficiency Classes and Performance Specifications" (Upto & including 140 kW) | Over Speed Test - Frequency | Cl 16.3.4 IS 12615 |
| 1012 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Line Operated Three Phase AC Induction Motor (IE Code) "Efficiency Classes and Performance Specifications" (Upto & including 140 kW) | Over speed Test - Speed | Cl 16.3.4 IS 12615 |
| 1013 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Line Operated Three Phase AC Induction Motor (IE Code) "Efficiency Classes and Performance Specifications" (Upto & including 140 kW) | Pull Out Torque Test - Torque | Cl 12.2 IS 12615 |
| 1014 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Line Operated Three Phase AC Induction Motor (IE Code) "Efficiency Classes and Performance Specifications" (Upto & including 140 kW) | Pull Up Torque Test - Torque | Cl 12.2 IS 12615 |
| 1015 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Line Operated Three Phase AC Induction Motor (IE Code) "Efficiency Classes and Performance Specifications" (Upto & including 140 kW) | Reduced Voltage Running Up Test - Speed | Cl 16.1.5 IS 12615 |
| 1016 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Line Operated Three Phase AC Induction Motor (IE Code) "Efficiency Classes and Performance Specifications" (Upto & including 140 kW) | Resistance of Winding - Resistance | Cl 16.1.2 IS 12615 |

# SCOPE OF ACCREDITATION

| | | | |
|---|---|---|---|
| **Laboratory Name :** | SCIENTIFIC AND INDUSTRIAL TESTING AND RESEARCH CENTRE, 83 & 84 AVARAMPALAYAM ROAD, K.R.PURAM POST, COIMBATORE, TAMIL NADU, INDIA | | |
| **Accreditation Standard** | ISO/IEC 17025:2017 | | |
| **Certificate Number** | TC-5324 | **Page No** | 66 of 93 |
| **Validity** | 31/03/2023 to 30/03/2025 | **Last Amended on** | 20/06/2023 |

| S.No | Discipline / Group | Materials or Products tested | Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed | Test Method Specification against which tests are performed and / or the techniques / equipment used |
|---|---|---|---|---|
| 1017 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Line Operated Three Phase AC Induction Motor (IE Code) "Efficiency Classes and Performance Specifications" (Upto & including 140 kW) | Resistance of Winding - Resistance | Cl 16.1.2 IS 12615 |
| 1018 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Line Operated Three Phase AC Induction Motor (IE Code) "Efficiency Classes and Performance Specifications" (Upto & including 140 kW) | Temperature Rise Test - Temperature | Cl 13 IS 12615 |
| 1019 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Line Operated Three Phase AC Induction Motor (IE Code) "Efficiency Classes and Performance Specifications" (Upto & including 140 kW) | Terminal Markings | Cl 9 IS 12615 |
| 1020 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Line Operated Three Phase AC Induction Motor (IE Code) "Efficiency Classes and Performance Specifications" (Upto & including 140 kW) | Test for noise Levels of Motor | IS 12065 |
| 1021 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Line Operated Three Phase AC Induction Motor (IE Code) "Efficiency Classes and Performance Specifications" (Upto & including 140 kW) | Vibration Measurement Test - Displacement | Cl 16.3.1 IS 12615 |
| 1022 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Line Operated Three Phase AC Induction Motor (IE Code) "Efficiency Classes and Performance Specifications" (Upto & including 140 kW) | Vibration Measurement Test - Velocity | Cl 16.3.1 IS 12615 |
| 1023 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Motors and Pumps | Degree of Protection - First Characteristic numeral (IP 0X to IP 6X) | Cl. 5,12,13 IS/IEC 60529 |
| 1024 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Motors and Pumps | Degree of Protection - Second Characteristic Numeral (IP X0 to IP X8) | Cl. 6,14 IS/IEC 60529 |
| 1025 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Motors and Pumps | Marking | Cl. 10 IS/IEC 60529 |
| 1026 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Motors for Submersible pumpsets. (Up to & including 75 kW.) | Direction of rotation | Cl 13,IS 9283 |
| 1027 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Motors for Submersible pumpsets. (Up to & including 75 kW.) | High voltage test - Current | Cl 20,IS 9283 |
| 1028 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Motors for Submersible pumpsets. (Up to & including 75 kW.) | High voltage test-voltage | Cl 20,IS 9283 |
| 1029 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Motors for Submersible pumpsets. (Up to & including 75 kW.) | Insulation resistance test @ 500V DC | Cl 21,IS 9283 |
| 1030 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Motors for Submersible pumpsets. (Up to & including 75 kW.) | Leakage current test - Current | Cl 22,IS 9283 |
| 1031 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Motors for Submersible pumpsets. (Up to & including 75 kW.) | load test - Efficiency | Cl 16.1.g,IS 9283 |
| 1032 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Motors for Submersible pumpsets. (Up to & including 75 kW.) | Load test - Frequency | Cl 16.1.g IS 9283 |

# SCOPE OF ACCREDITATION

| | | | |
|---|---|---|---|
| **Laboratory Name :** | SCIENTIFIC AND INDUSTRIAL TESTING AND RESEARCH CENTRE, 83 & 84 AVARAMPALAYAM ROAD, K.R.PURAM POST, COIMBATORE, TAMIL NADU, INDIA | | |
| **Accreditation Standard** | ISO/IEC 17025:2017 | | |
| **Certificate Number** | TC-5324 | **Page No** | 67 of 93 |
| **Validity** | 31/03/2023 to 30/03/2025 | **Last Amended on** | 20/06/2023 |

| S.No | Discipline / Group | Materials or Products tested | Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed | Test Method Specification against which tests are performed and / or the techniques / equipment used |
|---|---|---|---|---|
| 1033 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Motors for Submersible pumpsets. (Up to & including 75 kW.) | Load test - Input power | Cl 16.1.g,IS 9283 |
| 1034 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Motors for Submersible pumpsets. (Up to & including 75 kW.) | Load test - load Torque | Cl 16.1.g,IS 9283 |
| 1035 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Motors for Submersible pumpsets. (Up to & including 75 kW.) | Load test - Power Factor | Cl 16.1.g,IS 9283 |
| 1036 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Motors for Submersible pumpsets. (Up to & including 75 kW.) | Load test - Speed | Cl 16.1.g,IS 9283 |
| 1037 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Motors for Submersible pumpsets. (Up to & including 75 kW.) | Load test - Voltage | Cl 16.1.g,IS 9283 |
| 1038 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Motors for Submersible pumpsets. (Up to & including 75 kW.) | Load test-Current | Cl 16.1.g,IS 9283 |
| 1039 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Motors for Submersible pumpsets. (Up to & including 75 kW.) | Locked rotor test - Current | Cl 16.1.f, IS 9283 |
| 1040 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Motors for Submersible pumpsets. (Up to & including 75 kW.) | Locked rotor test - torque | Cl 16.1.f, IS 9283 |
| 1041 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Motors for Submersible pumpsets. (Up to & including 75 kW.) | Momentary over load test - Torque | Cl 16.1.m, IS 9283 |
| 1042 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Motors for Submersible pumpsets. (Up to & including 75 kW.) | No load test - Current | Cl 16.1.d IS 9283 |
| 1043 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Motors for Submersible pumpsets. (Up to & including 75 kW.) | No load test - Frequency | Cl 16.1.d,IS 9283 |
| 1044 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Motors for Submersible pumpsets. (Up to & including 75 kW.) | No load test - Input power | Cl 16.1.d, IS 9283 |
| 1045 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Motors for Submersible pumpsets. (Up to & including 75 kW.) | No load test - Speed | Cl 16.1.d,IS 9283 |
| 1046 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Motors for Submersible pumpsets. (Up to & including 75 kW.) | No load test - Voltage | Cl 16.1.d,IS 9283 |
| 1047 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Motors for Submersible pumpsets. (Up to & including 75 kW.) | Reduced voltage running up test - speed | Cl 11.7.g&22,IS 9283 |
| 1048 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Motors for Submersible pumpsets. (Up to & including 75 kW.) | Resistance of winding - Resistance | Cl 16.1.c,IS 9283 |
| 1049 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Motors for Submersible pumpsets. (Up to & including 75 kW.) | Resistance of winding- Resistance | Cl 16.1.c,IS 9283 |
| 1050 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Motors for Submersible pumpsets. (Up to & including 75 kW.) | Temperature rise test - Temperature | Cl 19,IS 9283 |
| 1051 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Motors for Submersible pumpsets. (Up to & including 75 kW.) | Terminal markings | Cl 13,IS 9283 |

# SCOPE OF ACCREDITATION

**Laboratory Name :** SCIENTIFIC AND INDUSTRIAL TESTING AND RESEARCH CENTRE, 83 & 84 AVARAMPALAYAM ROAD, K.R.PURAM POST, COIMBATORE, TAMIL NADU, INDIA

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

**Certificate Number** TC-5324 **Page No** 68 of 93

**Validity** 31/03/2023 to 30/03/2025 **Last Amended on** 20/06/2023

| S.No | Discipline / Group | Materials or Products tested | Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed | Test Method Specification against which tests are performed and / or the techniques / equipment used |
|---|---|---|---|---|
| 1052 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Motors for Submersible pumpsets. (Up to & including 75 kW.) | Vibration measurement - Velocity | IS 9283 |
| 1053 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Motors for Submersible pumpsets. (Up to & including 75 kW.) | Vibration Measurements test - Displacement | IS 9283 |
| 1054 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Open well Submersible pump sets (up to & including 50 kW) | Constructional Features | Cl 7 IS 14220 |
| 1055 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Open well Submersible pump sets (up to & including 50 kW) | Design Features | Cl 8 IS 14220 |
| 1056 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Open well Submersible pump sets (up to & including 50 kW) | Direction of Rotation | Cl 10.7,IS 14220 |
| 1057 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Open well Submersible pump sets (up to & including 50 kW) | Earthing | Cl 10.6 IS 14220 |
| 1058 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Open well Submersible pump sets (up to & including 50 kW) | GENERAL REQUIREMENTS | Cl 10 IS 14220 |
| 1059 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Open well Submersible pump sets (up to & including 50 kW) | High Voltage Test - Current | Cl 14.4,IS 14220 |
| 1060 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Open well Submersible pump sets (up to & including 50 kW) | High voltage test - Voltage | Cl 14.4,IS 14220 |
| 1061 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Open well Submersible pump sets (up to & including 50 kW) | Insulation resistance test @ 500V DC - Resistance | Cl 14.3,IS 14220 |
| 1062 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Open well Submersible pump sets (up to & including 50 kW) | Leakage Current Test - Current | Cl 14.5, IS 14220 |
| 1063 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Open well Submersible pump sets (up to & including 50 kW) | Leakage Current Test - Current | Cl 14.5,IS 14220 |
| 1064 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Open well Submersible pump sets (up to & including 50 kW) | Locked Rotor Test - Current | Cl 14.7&14.10.2,IS 14220 |
| 1065 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Open well Submersible pump sets (up to & including 50 kW) | Locked Rotor Test - Torque | Cl 14.7&14.10.2,IS 14220 |
| 1066 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Open well Submersible pump sets (up to & including 50 kW) | Marking / Rating plate | Cl 18 IS 14220 |
| 1067 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Open well Submersible pump sets (up to & including 50 kW) | No load Test - Current | Cl 14.10.1.d,IS 14220 |
| 1068 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Open well Submersible pump sets (up to & including 50 kW) | No load Test - Frequency | Cl 14.10.1.d,IS 14220 |
| 1069 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Open well Submersible pump sets (up to & including 50 kW) | No load Test - Input Power | Cl 14.10.1.d,IS 14220 |
| 1070 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Open well Submersible pump sets (up to & including 50 kW) | No load test - Speed | Cl 14.10.1.d, IS 14220 |

# SCOPE OF ACCREDITATION

**Laboratory Name :** SCIENTIFIC AND INDUSTRIAL TESTING AND RESEARCH CENTRE, 83 & 84 AVARAMPALAYAM ROAD, K.R.PURAM POST, COIMBATORE, TAMIL NADU, INDIA

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

**Certificate Number** TC-5324 **Page No** 69 of 93

**Validity** 31/03/2023 to 30/03/2025 **Last Amended on** 20/06/2023

| S.No | Discipline / Group | Materials or Products tested | Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed | Test Method Specification against which tests are performed and / or the techniques / equipment used |
|---|---|---|---|---|
| 1071 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Open well Submersible pump sets (up to & including 50 kW) | No load test - Voltage | Cl 14.10.1.d,IS 14220 |
| 1072 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Open well Submersible pump sets (up to & including 50 kW) | Pump Performance test - Current | Cl.16 IS 14220 |
| 1073 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Open well Submersible pump sets (up to & including 50 kW) | Pump Performance test - Efficiency | Cl.16 IS 14220 |
| 1074 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Open well Submersible pump sets (up to & including 50 kW) | Pump performance test - Flow | Cl 16,IS 14220 |
| 1075 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Open well Submersible pump sets (up to & including 50 kW) | Pump Performance test - Head | Cl.16 IS 14220 |
| 1076 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Open well Submersible pump sets (up to & including 50 kW) | Pump performance test - Hydrostatic pressure test | Cl 15.5,IS 14220 |
| 1077 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Open well Submersible pump sets (up to & including 50 kW) | Pump Performance test - Pipe Size | Cl.16 IS 14220 |
| 1078 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Open well Submersible pump sets (up to & including 50 kW) | Pump Performance test - Power | Cl.16 IS 14220 |
| 1079 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Open well Submersible pump sets (up to & including 50 kW) | Pump performance test- Surface roughness test | Cl10.4.2,IS 14220 |
| 1080 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Open well Submersible pump sets (up to & including 50 kW) | Reduced Voltage Running Up Test - Speed | Cl 14.10.1.e,IS 14220 |
| 1081 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Open well Submersible pump sets (up to & including 50 kW) | Resistance of Winding - Resistance | Cl 14.10.1.c,IS 14220 |
| 1082 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Open well Submersible pump sets (up to & including 50 kW) | Resistance of Winding - Resistance | Cl 14.10.1.c,IS 14220 |
| 1083 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Open well Submersible pump sets (up to & including 50 kW) | Temperature Rise Test - Temperature | Cl 14.6,IS 14220 |
| 1084 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Open well Submersible pump sets (up to & including 50 kW) | Terminal Markings | Cl 10.7, IS 14220 |
| 1085 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Open well Submersible pump sets (upto & including 50 kW) | Cable | Cl 12 IS 14220 |
| 1086 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Pumps -Centrifugal regenerative pumps for clear,cold water- up to & including 1500 W for AC induction motors for single phase motors(upto & including 7.5 kW for three phase motors) | Motor full Load Test - Input Power | Cl 13,IS 8472 |
| 1087 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Single phase motors for centrifugal pumps for agricultural applications - Specification | Type of Enclosures | Cl 5, IS 14582 & IS / IEC 60034-5 |
| 1088 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Single phase small AC and universal electric motors, (upto & including 1500 W for AC induction motors, upto & including 750 W for universal motors) | Insulation resistance test @ 500V DC | Cl. 12.6 IS 996 |

# SCOPE OF ACCREDITATION

| | | | |
|---|---|---|---|
| **Laboratory Name :** | SCIENTIFIC AND INDUSTRIAL TESTING AND RESEARCH CENTRE, 83 & 84 AVARAMPALAYAM ROAD, K.R.PURAM POST, COIMBATORE, TAMIL NADU, INDIA | | |
| **Accreditation Standard** | ISO/IEC 17025:2017 | | |
| **Certificate Number** | TC-5324 | **Page No** | 70 of 93 |
| **Validity** | 31/03/2023 to 30/03/2025 | **Last Amended on** | 20/06/2023 |

| S.No | Discipline / Group | Materials or Products tested | Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed | Test Method Specification against which tests are performed and / or the techniques / equipment used |
|---|---|---|---|---|
| 1089 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Single phase small AC and universal electric motors, (upto & including 1500 W for AC induction motors, upto & including 750 W for universal motors) | Dimensions (L/W/H/Dia) | Apendix F-F3 IS 996 |
| 1090 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Single phase small AC and universal electric motors, (upto & including 1500 W for AC induction motors, upto & including 750 W for universal motors) | Dimensions (L/W/H/Dia) | Apendix F-F3 IS 996 |
| 1091 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Single phase small AC and universal electric motors, (upto & including 1500 W for AC induction motors, upto & including 750 W for universal motors) | Dimensions (L/W/H/Dia) | Apendix F-F3 IS 996 |
| 1092 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Single phase small AC and universal electric motors, (upto & including 1500 W for AC induction motors, upto & including 750 W for universal motors) | High voltage test - Voltage | Cl. 12.7 IS 996 |
| 1093 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Single phase small AC and universal electric motors, (upto & including 1500 W for AC induction motors, upto & including 750 W for universal motors) | Leakage current Test - Current | Cl. 12.9 of IS 996 |
| 1094 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Single phase small AC and universal electric motors, (upto & including 1500 W for AC induction motors, upto & including 750 W for universal motors) | Load Test - Efficiency | Cl 12.4 IS 996 |
| 1095 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Single phase small AC and universal electric motors, (upto & including 1500 W for AC induction motors, upto & including 750 W for universal motors) | Load Test - Input power | Cl 12.4,IS 996 |
| 1096 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Single phase small AC and universal electric motors, (upto & including 1500 W for AC induction motors, upto & including 750 W for universal motors) | Load Test - Load Torque | Cl 12.4,IS 996 |
| 1097 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Single phase small AC and universal electric motors, (upto & including 1500 W for AC induction motors, upto & including 750 W for universal motors) | Load Test - Speed | Cl 12.4,IS 996 |
| 1098 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Single phase small AC and universal electric motors, (upto & including 1500 W for AC induction motors, upto & including 750 W for universal motors) | Load Test - Voltage | Cl 12.4,IS 996 |
| 1099 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Single phase small AC and universal electric motors, (upto & including 1500 W for AC induction motors, upto & including 750 W for universal motors) | Locked rotor test - Torque | Cl 16.3.2 IS 996 |
| 1100 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Single phase small AC and universal electric motors, (upto & including 1500 W for AC induction motors, upto & including 750 W for universal motors) | Moisture Proofness Test - Relative Humidity | Cl 12.8 IS 996 |
| 1101 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Single phase small AC and universal electric motors, (upto & including 1500 W for AC induction motors, upto & including 750 W for universal motors) | Moisture Proofness Test - Temperature | Cl 12.8 IS 996 |
| 1102 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Single phase small AC and universal electric motors, (upto & including 1500 W for AC induction motors, upto & including 750 W for universal motors) | Momentary Overload Test - Torque | Cl 12.1.2 IS 996: |

# SCOPE OF ACCREDITATION

| | | | |
|---|---|---|---|
| **Laboratory Name :** | SCIENTIFIC AND INDUSTRIAL TESTING AND RESEARCH CENTRE, 83 & 84 AVARAMPALAYAM ROAD, K.R.PURAM POST, COIMBATORE, TAMIL NADU, INDIA | | |
| **Accreditation Standard** | ISO/IEC 17025:2017 | | |
| **Certificate Number** | TC-5324 | **Page No** | 71 of 93 |
| **Validity** | 31/03/2023 to 30/03/2025 | **Last Amended on** | 20/06/2023 |

| S.No | Discipline / Group | Materials or Products tested | Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed | Test Method Specification against which tests are performed and / or the techniques / equipment used |
|---|---|---|---|---|
| 1103 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Single phase small AC and universal electric motors, (upto & including 1500 W for AC induction motors, upto & including 750 W for universal motors) | No load test - Input Power | Cl 16.3.2.a IS 996 |
| 1104 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Single phase small AC and universal electric motors, (upto & including 1500 W for AC induction motors, upto & including 750 W for universal motors) | No Load test - Speed | Cl.16.3.2.a,IS 996 |
| 1105 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Single phase small AC and universal electric motors, (upto & including 1500 W for AC induction motors, upto & including 750 W for universal motors) | No load test - Voltage | Cl 16.3.2.a,IS 996 |
| 1106 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Single phase small AC and universal electric motors, (upto & including 1500 W for AC induction motors, upto & including 750 W for universal motors) | Pull up torque test - Torque | Cl 12.1.1 IS 996 |
| 1107 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Single phase small AC and universal electric motors, (upto & including 1500 W for AC induction motors, upto & including 750 W for universal motors) | Temperature rise test - Temperature | Cl 12.2 IS 996 |
| 1108 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Single phase small AC and universal electric motors, (upto & including 1500 W for AC induction motors, upto & including 750 W for universal motors) | Terminal Markings - Direction of Rotation | Cl 14&15 IS 996 |
| 1109 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Single phase small AC and universal electric motors, (upto & including 1500 W for AC induction motors, upto & including 750 W for universal motors) | Vibration Measurement Test - Displacement | Cl 12.5 IS 996 |
| 1110 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Single phase small AC and universal electric motors, (upto & including 1500 W for AC induction motors, upto & including 750 W for universal motors) | Vibration measurement test - Velocity | Cl 12.5 IS 996 |
| 1111 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Single phase small AC electric motors for centrifugal pumps for agricultural applications - Specification | Dimension - Test | Cl 9 IS 14582 |
| 1112 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Single phase small AC electric motors for centrifugal pumps for agricultural applications - Specification | Dimensions - Test | Cl 9 IS 14582 |
| 1113 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Single phase small AC electric motors for centrifugal pumps for agricultural applications - Specification | Dimensions - Test | Cl 9 IS 14582 |
| 1114 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Single phase small AC electric motors for centrifugal pumps for agricultural applications - Specification | Direction of Rotation | IS 14582 |
| 1115 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Single phase small AC electric motors for centrifugal pumps for agricultural applications - Specification | High Voltage Test - Current | Cl 12.6 IS 14582 |
| 1116 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Single phase small AC electric motors for centrifugal pumps for agricultural applications - Specification | High Voltage Test - Voltage | Cl 12.6 IS 14582 |
| 1117 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Single phase small AC electric motors for centrifugal pumps for agricultural applications - Specification | Insulation resistance test @ 500V DC - Resistance | Cl 12.5 IS 14582 |
| 1118 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Single phase small AC electric motors for centrifugal pumps for agricultural applications - Specification | Load Test - Current | Cl 13&16.2.e IS 14582 |

# SCOPE OF ACCREDITATION

| | | | |
|---|---|---|---|
| **Laboratory Name :** | SCIENTIFIC AND INDUSTRIAL TESTING AND RESEARCH CENTRE, 83 & 84 AVARAMPALAYAM ROAD, K.R.PURAM POST, COIMBATORE, TAMIL NADU, INDIA | | |
| **Accreditation Standard** | ISO/IEC 17025:2017 | | |
| **Certificate Number** | TC-5324 | **Page No** | 72 of 93 |
| **Validity** | 31/03/2023 to 30/03/2025 | **Last Amended on** | 20/06/2023 |

| S.No | Discipline / Group | Materials or Products tested | Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed | Test Method Specification against which tests are performed and / or the techniques / equipment used |
|---|---|---|---|---|
| 1119 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Single phase small AC electric motors for centrifugal pumps for agricultural applications - Specification | Load Test - Efficiency | Cl 13&16.2.e IS 14582 |
| 1120 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Single phase small AC electric motors for centrifugal pumps for agricultural applications - Specification | Load Test - Frequency | Cl 13&16.2.e IS 14582 |
| 1121 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Single phase small AC electric motors for centrifugal pumps for agricultural applications - Specification | Load Test - Input Power | Cl 13&16.2.e IS 14582 |
| 1122 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Single phase small AC electric motors for centrifugal pumps for agricultural applications - Specification | Load Test - Load Torque | Cl 13&16.2.e IS 14582 |
| 1123 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Single phase small AC electric motors for centrifugal pumps for agricultural applications - Specification | Load Test - Power Factor | Cl 13&16.2.e IS 14582 |
| 1124 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Single phase small AC electric motors for centrifugal pumps for agricultural applications - Specification | Load Test - Speed | Cl 13&16.2.e IS 14582 |
| 1125 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Single phase small AC electric motors for centrifugal pumps for agricultural applications - Specification | Load Test - Voltage | Cl 13&16.2.e IS 14582 |
| 1126 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Single phase small AC electric motors for centrifugal pumps for agricultural applications - Specification | Locked Rotor Test - Current | Cl 16.2.d IS 14582 |
| 1127 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Single phase small AC electric motors for centrifugal pumps for agricultural applications - Specification | Locked Rotor Test - Torque | Cl 16.2.d IS 14582 |
| 1128 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Single phase small AC electric motors for centrifugal pumps for agricultural applications - Specification | Momentary Over load test - Torque | Cl 12.2 IS 14582 |
| 1129 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Single phase small AC electric motors for centrifugal pumps for agricultural applications - Specification | No load test - Current | Cl 16.2.b IS 14582 |
| 1130 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Single phase small AC electric motors for centrifugal pumps for agricultural applications - Specification | No load test - Frequency | Cl 16.2.b IS 14582 |
| 1131 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Single phase small AC electric motors for centrifugal pumps for agricultural applications - Specification | No load test - Input Power | Cl 16.2.b IS 14582 |
| 1132 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Single phase small AC electric motors for centrifugal pumps for agricultural applications - Specification | No load test - Speed | Cl 16.2.b IS 14582 |
| 1133 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Single phase small AC electric motors for centrifugal pumps for agricultural applications - Specification | No load test - Voltage | Cl 16.2.b IS 14582 |
| 1134 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Single phase small AC electric motors for centrifugal pumps for agricultural applications - Specification | Resistance of Winding - Resistance | Cl 16.2.a IS 14582 |
| 1135 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Single phase small AC electric motors for centrifugal pumps for agricultural applications - Specification | Resistance of Winding - Resistance | Cl 16.2.a IS 14582 |
| 1136 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Single phase small AC electric motors for centrifugal pumps for agricultural applications - Specification | Temperature Rise Test - Temperature | Cl 12.3 IS 14582 |
| 1137 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Single phase small AC electric motors for centrifugal pumps for agricultural applications - Specification | Terminal Markings | IS 14582 |

# SCOPE OF ACCREDITATION

| | | | |
|---|---|---|---|
| **Laboratory Name :** | SCIENTIFIC AND INDUSTRIAL TESTING AND RESEARCH CENTRE, 83 & 84 AVARAMPALAYAM ROAD, K.R.PURAM POST, COIMBATORE, TAMIL NADU, INDIA | | |
| **Accreditation Standard** | ISO/IEC 17025:2017 | | |
| **Certificate Number** | TC-5324 | **Page No** | 73 of 93 |
| **Validity** | 31/03/2023 to 30/03/2025 | **Last Amended on** | 20/06/2023 |

| S.No | Discipline / Group | Materials or Products tested | Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed | Test Method Specification against which tests are performed and / or the techniques / equipment used |
|---|---|---|---|---|
| 1138 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Single phase small AC electric motors for centrifugal pumps for agricultural applications - Specification | Vibration measurement Test - Displacement | IS 14582 |
| 1139 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Single phase small AC electric motors for centrifugal pumps for agricultural applications - Specification | Vibration Measurement Test - Velocity | IS 14582 |
| 1140 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Single phase small AC motors (up to & including 2200 W for AC induction motors | Types of Enclosures | Cl.10, IS 996:2009, IS / IEC 60034-5 |
| 1141 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Single phase small AC motors (upto & including 2200 W for AC induction motors | High Voltage Test - Voltage | Cl 13 IS 996 |
| 1142 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Single phase small AC motors (upto & including 2200 W for AC induction motors | Leakage Current Test - Current | Cl 13.3 IS 996 |
| 1143 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Single phase small AC motors (upto & including 2200 W for AC induction motors | Leakage Current Test - Current | Cl 13.3 IS 996 |
| 1144 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Single phase small AC motors (upto & including 2200 W for AC induction motors | Load Test - Frequency | Cl 17.3.d IS 996 |
| 1145 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Single phase small AC motors (upto & including 2200 W for AC induction motors | Load Test - Load Torque | Cl 17.3.d IS 996 |
| 1146 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Single phase small AC motors (upto & including 2200 W for AC induction motors | Load Test - Speed | Cl 17.3.d IS 996 |
| 1147 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Single phase small AC motors (upto & including 2200 W for AC induction motors | Moisture Proofness Test - Relative Humidity | Cl 13.2 IS 996 |
| 1148 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Single phase small AC motors (upto & including 2200 W for AC induction motors | Moisture Proofness Test - Temperature | Cl 13.2 IS 996 |
| 1149 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Single phase small AC motors (upto & including 2200 W for AC induction motors | Momentary Overload Test - Torque | Cl 12.1 IS 996 |
| 1150 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Single phase small AC motors (upto & including 2200 W for AC induction motors | No load test - Current | Cl 17.3.a IS 996 |
| 1151 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Single phase small AC motors (upto & including 2200 W for AC induction motors | No load test - Frequency | Cl 17.3.a IS 996 |
| 1152 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Single phase small AC motors (upto & including 2200 W for AC induction motors | No load test - Input Power | Cl 17.3.a IS 996 |
| 1153 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Single phase small AC motors (upto & including 2200 W for AC induction motors | No load test - Speed | Cl 17.3.a IS 996 |
| 1154 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Single phase small AC motors (upto & including 2200 W for AC induction motors | No load Test - Voltage | Cl 17.3.a IS 996 |
| 1155 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Single phase small AC motors (upto & including 2200 W for AC induction motors | Pull Out Torque Test - Torque | Cl 12.1 IS 996 |
| 1156 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Single phase small AC motors (upto & including 2200 W for AC induction motors | Pull Up Torque Test - Torque | Cl 12.1 IS 996 |

# SCOPE OF ACCREDITATION

| | | | |
|---|---|---|---|
| **Laboratory Name :** | SCIENTIFIC AND INDUSTRIAL TESTING AND RESEARCH CENTRE, 83 & 84 AVARAMPALAYAM ROAD, K.R.PURAM POST, COIMBATORE, TAMIL NADU, INDIA | | |
| **Accreditation Standard** | ISO/IEC 17025:2017 | | |
| **Certificate Number** | TC-5324 | **Page No** | 74 of 93 |
| **Validity** | 31/03/2023 to 30/03/2025 | **Last Amended on** | 20/06/2023 |

| S.No | Discipline / Group | Materials or Products tested | Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed | Test Method Specification against which tests are performed and / or the techniques / equipment used |
|---|---|---|---|---|
| 1157 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Single phase small AC motors (upto & including 2200 W for AC induction motors | Temperature Rise Test - Temperature | Cl 12.2 IS 996 |
| 1158 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Single phase small AC motors (upto & including 2200 W for AC induction motors | Terminal Marking | Cl 14 IS 996 |
| 1159 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Single phase small AC motors (upto & including 2200 W for AC induction motors | Types of Enclosures | 10, IS/IEC 60034-5 |
| 1160 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Single phase small AC motors (upto & including 2200 W for AC induction motors | Vibration Measurement Test - Displacement | Cl 12.6 IS 996 |
| 1161 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Single phase small AC motors (upto & including 2200 W for AC induction motors | Vibration Measurement Test- Velocity | Cl 12.6 IS 996 |
| 1162 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Single phase small AC motors (upto & including 2200 W for AC induction motors) | Direction of Rotation | Cl 14 IS 996 |
| 1163 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Single phase small AC motors (upto & including 2200 W for AC induction motors) | Insulation resistance test @ 500V DC - Resistance | Cl 12.7 IS 996 |
| 1164 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Solar Photovoltaic water pumping systems part 1 Centrifugal pumps-Specification | Constructional Features | Cl 5 IS 17018(Part 1) |
| 1165 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Solar Photovoltaic water pumping systems part 1 Centrifugal pumps-Specification | Photovoltaic pumping systems design qualification and performance measurements - Hot Profile, Cold Profile and Outdoor/Real Condition - Flow | IS 17018(Part1) |
| 1166 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Solar Photovoltaic water pumping systems part 1 Centrifugal pumps-Specification | Photovoltaic pumping systems design qualification and performance measurements - Hot Profile, Cold Profile and Outdoor/Real Condition -Tests for hydraulic and electrical performance of pumpset | Cl 10 IS 17018(Part1) |
| 1167 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Solar Photovoltaic water pumping systems part 1 Centrifugal pumps-Specification | Photovoltaic pumping systems design qualification and performance measurements - Hot Profile, Cold Profile and Outdoor/Real Condition-Current | IS 17018(Part1) |
| 1168 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Solar Photovoltaic water pumping systems part 1 Centrifugal pumps-Specification | Photovoltaic pumping systems design qualification and performance measurements - Hot Profile, Cold Profile and Outdoor/Real Condition-Frequency | IS 17018(Part1) |

# SCOPE OF ACCREDITATION

**Laboratory Name :** SCIENTIFIC AND INDUSTRIAL TESTING AND RESEARCH CENTRE, 83 & 84 AVARAMPALAYAM ROAD, K.R.PURAM POST, COIMBATORE, TAMIL NADU, INDIA

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

**Certificate Number** TC-5324 **Page No** 75 of 93

**Validity** 31/03/2023 to 30/03/2025 **Last Amended on** 20/06/2023

| S.No | Discipline / Group | Materials or Products tested | Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed | Test Method Specification against which tests are performed and / or the techniques / equipment used |
|---|---|---|---|---|
| 1169 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Solar Photovoltaic water pumping systems part 1 Centrifugal pumps-Specification | Photovoltaic pumping systems design qualification and performance measurements - Hot Profile, Cold Profile and Outdoor/Real Condition-Input power | IS 17018(Part1) |
| 1170 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Solar Photovoltaic water pumping systems part 1 Centrifugal pumps-Specification | Photovoltaic pumping systems design qualification and performance measurements - Hot Profile, Cold Profile and Outdoor/Real Condition-Maximum shut off head-Input power | IS 17018(Part 1) |
| 1171 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Solar Photovoltaic water pumping systems part 1 Centrifugal pumps-Specification | Photovoltaic pumping systems design qualification and performance measurements - Hot Profile, Cold Profile and Outdoor/Real Condition-Out put Power | IS 17018(Part1) |
| 1172 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Solar Photovoltaic water pumping systems part 1 Centrifugal pumps-Specification | Photovoltaic pumping systems design qualification and performance measurements - Hot Profile, Cold Profile and Outdoor/Real Condition-Pressure | IS 17018(Part 1) |
| 1173 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Solar Photovoltaic water pumping systems part 1 Centrifugal pumps-Specification | Photovoltaic pumping systems design qualification and performance measurements - Hot Profile, Cold Profile and Outdoor/Real Condition-Speed | IS 17018(Part1) |
| 1174 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Solar Photovoltaic water pumping systems part 1 Centrifugal pumps-Specification | Provision of earthing | Cl 8 IS 17018(Part1) |
| 1175 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Specification for textile motors - part 1-loom motors (upto & including 3.7kW) | Direction of Rotation | Cl 13 IS 2972 (Pt - I) |
| 1176 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Specification for textile motors - part 1-loom motors (upto & including 3.7kW) | High Voltage Test - Current | Cl 16.3.1.h IS 2972(Pt-I) |
| 1177 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Specification for textile motors - part 1-loom motors (upto & including 3.7kW) | High Voltage Test - Voltage | Cl 16.3.1.h IS 2972(Pt-I) |
| 1178 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Specification for textile motors - part 1-loom motors (upto & including 3.7kW) | Insulation resistance test @ 500V DC - Resistance | Cl 16.3.1.j IS 2972 (Pt-1) |
| 1179 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Specification for textile motors - part 1-loom motors (upto & including 3.7kW) | Load Test - Current | Cl 16.3.1.e IS 2972(Pt-I) |

# SCOPE OF ACCREDITATION

| | | | |
|---|---|---|---|
| **Laboratory Name :** | SCIENTIFIC AND INDUSTRIAL TESTING AND RESEARCH CENTRE, 83 & 84 AVARAMPALAYAM ROAD, K.R.PURAM POST, COIMBATORE, TAMIL NADU, INDIA | | |
| **Accreditation Standard** | ISO/IEC 17025:2017 | | |
| **Certificate Number** | TC-5324 | **Page No** | 76 of 93 |
| **Validity** | 31/03/2023 to 30/03/2025 | **Last Amended on** | 20/06/2023 |

| S.No | Discipline / Group | Materials or Products tested | Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed | Test Method Specification against which tests are performed and / or the techniques / equipment used |
|---|---|---|---|---|
| 1180 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Specification for textile motors - part 1-loom motors (upto & including 3.7kW) | Load Test - Efficiency | Cl 16.3.1.e IS 2972(Pt-I) |
| 1181 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Specification for textile motors - part 1-loom motors (upto & including 3.7kW) | Load Test - Frequency | Cl 16.3.1.e IS 2972 |
| 1182 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Specification for textile motors - part 1-loom motors (upto & including 3.7kW) | Load Test - Input Power | Cl 16.3.1.e IS 2972(Pt-I) |
| 1183 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Specification for textile motors - part 1-loom motors (upto & including 3.7kW) | Load Test - Load Torque | Cl 16.3.1.e IS 2972(Pt-I) |
| 1184 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Specification for textile motors - part 1-loom motors (upto & including 3.7kW) | Load Test - Voltage | Cl 16.3.1.e IS 2972(Pt I) |
| 1185 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Specification for textile motors - part 1-loom motors (upto & including 3.7kW) | Locked Rotor Test - Current | Cl 16.3.1.d IS 2972(Pt-I) |
| 1186 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Specification for textile motors - part 1-loom motors (upto & including 3.7kW) | No load Test - Input Power | Cl 16.3.1.b IS 2972(Pt-I) |
| 1187 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Specification for textile motors - part 1-loom motors (upto & including 3.7kW) | No load test - Speed | Cl 16.3.1.b IS 2972(Pt-I) |
| 1188 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Specification for textile motors - part 1-loom motors (upto & including 3.7kW) | Pull Out Torque Test - Torque | Cl 12.2 IS 2972(Pt-I) |
| 1189 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Specification for textile motors - part 1-loom motors (upto & including 3.7kW) | Pull Up Torque Test - Torque | IS 2972(Pt-I) |
| 1190 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Specification for textile motors - part 1-loom motors (upto & including 3.7kW) | Reduced Voltage Running Up Test - Speed | Cl 16.3.1.c IS 2972(Pt-I) |
| 1191 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Specification for textile motors - part 1-loom motors (upto & including 3.7kW) | Resistance of Winding - Resistance | Cl 16.3.1a IS 2972(Pt-I) |
| 1192 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Specification for textile motors - part 1-loom motors (upto & including 3.7kW) | Temperature Rise Test - Temperature | Cl 16.3.1.g IS 2972(Pt-I) |
| 1193 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Specification for textile motors - part 1-loom motors (upto & including 3.7kW) | Terminal Markings | Cl 13 IS 2972(Pt-I) |
| 1194 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Specification for textile motors - part 1-loom motors (upto & including 3.7kW) | Vibration Measurement Test - Displacement | Cl 11,IS 2972(Pt-I) |
| 1195 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Specification for textile motors - part 1-loom motors (upto & including 3.7kW) | Vibration Measurement Test - Velocity | Cl 11,IS 2972(Pt-I) |
| 1196 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Submersible Pump sets (Up to & including 75 kW) | CONSTRUCTIONAL FEATURES | Cl 6 IS 8034 |
| 1197 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Submersible Pump sets (Up to & including 75 kW) | Design features | Cl 7 IS 8034 |
| 1198 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Submersible Pump sets (Up to & including 75 kW) | Dimension | Cl 7 IS 8034 |

# SCOPE OF ACCREDITATION

**Laboratory Name :** SCIENTIFIC AND INDUSTRIAL TESTING AND RESEARCH CENTRE, 83 & 84 AVARAMPALAYAM ROAD, K.R.PURAM POST, COIMBATORE, TAMIL NADU, INDIA

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

**Certificate Number** TC-5324 **Page No** 77 of 93

**Validity** 31/03/2023 to 30/03/2025 **Last Amended on** 20/06/2023

| S.No | Discipline / Group | Materials or Products tested | Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed | Test Method Specification against which tests are performed and / or the techniques / equipment used |
|---|---|---|---|---|
| 1199 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Submersible Pump sets (Up to & including 75 kW) | Dimension | Cl 7 IS 8034 |
| 1200 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Submersible Pump sets (Up to & including 75 kW) | Dimension | Cl 7 IS 8034 |
| 1201 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Submersible Pump sets (Up to & including 75 kW) | Direction of rotation | Cl 8.7 IS 8034 |
| 1202 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Submersible Pump sets (Up to & including 75 kW) | Earthing | Cl 8.9.4 IS 8034 |
| 1203 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Submersible Pump sets (Up to & including 75 kW) | General requirements | Cl 8 IS 8034 |
| 1204 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Submersible Pump sets (Up to & including 75 kW) | High voltage test - Current | Cl 9.3 IS 8034 |
| 1205 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Submersible Pump sets (Up to & including 75 kW) | High voltage test - Voltage | Cl 9.3 IS 8034 |
| 1206 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Submersible Pump sets (Up to & including 75 kW) | Hydro static pressure test - Pressure | Cl 10.3 IS 8034 |
| 1207 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Submersible Pump sets (Up to & including 75 kW) | Insulation Resistance test @ 500V DC | Cl 9.2 IS 8034 |
| 1208 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Submersible Pump sets (Up to & including 75 kW) | Leakage current test | Cl 9.4 IS 8034 |
| 1209 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Submersible Pump sets (Up to & including 75 kW) | Leakage current test | Cl 9.4 IS 8034 |
| 1210 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Submersible Pump sets (Up to & including 75 kW) | Locked rotor test - Current | Cl 9.7&9.10.f IS 8034 |
| 1211 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Submersible Pump sets (Up to & including 75 kW) | Locked rotor test - Torque | Cl 9.7&9.10.f IS 8034 |
| 1212 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Submersible Pump sets (Up to & including 75 kW) | Marking / Rating plate | Cl 14 IS 8034 |
| 1213 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Submersible Pump sets (Up to & including 75 kW) | No load test - Current | Cl 9.10.d IS 8034 |
| 1214 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Submersible Pump sets (Up to & including 75 kW) | No load test - Frequency | Cl 9.10.d IS 8034 |
| 1215 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Submersible Pump sets (Up to & including 75 kW) | No load test - Input power | Cl 9.10.d IS 8034 |
| 1216 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Submersible Pump sets (Up to & including 75 kW) | No load test - Speed | Cl 9.10.d IS 8034 |
| 1217 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Submersible Pump sets (Up to & including 75 kW) | No load test - Voltage | Cl 9.10.d IS 8034 |

# SCOPE OF ACCREDITATION

**Laboratory Name :** SCIENTIFIC AND INDUSTRIAL TESTING AND RESEARCH CENTRE, 83 & 84 AVARAMPALAYAM ROAD, K.R.PURAM POST, COIMBATORE, TAMIL NADU, INDIA

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

**Certificate Number** TC-5324 **Page No** 78 of 93

**Validity** 31/03/2023 to 30/03/2025 **Last Amended on** 20/06/2023

| S.No | Discipline / Group | Materials or Products tested | Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed | Test Method Specification against which tests are performed and / or the techniques / equipment used |
|---|---|---|---|---|
| 1218 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Submersible Pump sets (Up to & including 75 kW) | Pump performance test - Current | Cl 11,IS 8034 |
| 1219 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Submersible Pump sets (Up to & including 75 kW) | Pump performance test - Efficiency | Cl 11,IS 8034 |
| 1220 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Submersible Pump sets (Up to & including 75 kW) | Pump performance test - Flow | Cl 11,IS 8034 |
| 1221 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Submersible Pump sets (Up to & including 75 kW) | Pump performance test - Head | Cl 11,IS 8034 |
| 1222 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Submersible Pump sets (Up to & including 75 kW) | Pump performance test - Pipe Size | Cl 11,IS 8034 |
| 1223 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Submersible Pump sets (Up to & including 75 kW) | Pump performance Test - Power | Cl 11,IS 8034 |
| 1224 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Submersible Pump sets (Up to & including 75 kW) | Pump Performance test - Surface roughness test | Cl.8.4.2,IS 8034 |
| 1225 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Submersible Pump sets (Up to & including 75 kW) | Reduced voltage running up test - Speed | Cl 9.10.e IS 8034 |
| 1226 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Submersible Pump sets (Up to & including 75 kW) | Resistance of Winding - Resistance | Cl 9.10.c IS 8034 |
| 1227 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Submersible Pump sets (Up to & including 75 kW) | Resistance of winding - Resistance | Cl 9.10.c IS 8034 |
| 1228 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Submersible Pump sets (Up to & including 75 kW) | Temperature rise test - Temperature | Cl 9.5 IS 8034 |
| 1229 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Submersible Pump sets (Up to & including 75 kW) | Terminal markings | Cl 8.8 IS 8034 |
| 1230 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Submersible/Surface motor pumpset, connected to the PV Generator directly or via converter (DC to DC or AC to DC) SPV pumping systems | Photovoltaic pumping systems design qualification and performance measurements - Hot Profile, Cold Profile and Outdoor/Real Condition - Input power | Cl.No.5,IEC 62253 |
| 1231 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Submersible/Surface motor pumpset, connected to the PV Generator directly or via converter (DC to DC or AC to DC) SPV pumping systems | Photovoltaic pumping systems design qualification and performance measurements - Hot Profile, Cold Profile and Outdoor/Real Condition - Voltage | Cl. 5 IEC 62253 |

# SCOPE OF ACCREDITATION

| | | | |
|---|---|---|---|
| **Laboratory Name :** | SCIENTIFIC AND INDUSTRIAL TESTING AND RESEARCH CENTRE, 83 & 84 AVARAMPALAYAM ROAD, K.R.PURAM POST, COIMBATORE, TAMIL NADU, INDIA | | |
| **Accreditation Standard** | ISO/IEC 17025:2017 | | |
| **Certificate Number** | TC-5324 | **Page No** | 79 of 93 |
| **Validity** | 31/03/2023 to 30/03/2025 | **Last Amended on** | 20/06/2023 |

| S.No | Discipline / Group | Materials or Products tested | Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed | Test Method Specification against which tests are performed and / or the techniques / equipment used |
|---|---|---|---|---|
| 1232 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Submersible/Surface motor pumpset, connected to the PV Generator directly or via converter (DC to DC or AC to DC) SPV pumping systems | Photovoltaic pumping systems design qualification and performance measurements - Hot Profile, Cold Profile and Outdoor/Real Condition-Current | Cl 5.IEC 62253 |
| 1233 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Submersible/Surface motor pumpset, connected to the PV Generator directly or via converter (DC to DC or AC to DC) SPV pumping systems | Photovoltaic pumping systems design qualification and performance measurements - Hot Profile, Cold Profile and Outdoor/Real Condition - Frequency | Cl 5.IEC62253 |
| 1234 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Submersible/Surface motor pumpset, connected to the PV Generator directly or via converter (DC to DC or AC to DC) SPV pumping systems | Photovoltaic pumping systems design qualification and performance measurements - Hot Profile, Cold Profile and Outdoor/Real Condition -Output Power | Cl.5 IEC62253 |
| 1235 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Submersible/Surface motor pumpset, connected to the PV Generator directly or via converter (DC to DC or AC to DC) SPV pumping systems | Photovoltaic pumping systems design qualification and performance measurements - Hot Profile, Cold Profile and Outdoor/Real Condition-Speed | Cl.No.5 IEC 62253 |
| 1236 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Submersible/Surface motor pumpset, connected to the PV Generator directly or via converter (DC to DC or AC to DC) SPV pumping systems | Photovoltaic pumping systems design qualification and performance measurements - Hot Profile, Cold Profile and Outdoor/Real Condition | MNRE Specification No. 41/3/2018- Annexure - II |
| 1237 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Submersible/Surface motor pumpset, connected to the PV Generator directly or via converter (DC to DC or AC to DC) SPV pumping systems | Photovoltaic pumping systems design qualification and performance measurements - Hot Profile, Cold Profile and Outdoor/Real Condition - Performance test | MNRE specifications SPV of Kusum programme specifications and testing procedure for solar water pumping systems Cl 5.0,5.1,5.3 |
| 1238 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Submersible/Surface motor pumpset, connected to the PV Generator directly or via converter (DC to DC or AC to DC) SPV pumping systems | Photovoltaic pumping systems design qualification and performance measurements - Hot Profile, Cold Profile and Outdoor/Real Condition - Pressure | MNRE JNNSM Solar Photovoltaic Water Pumping System for Drinking Water Applications (2014-15) Solar Photovoltaic Water Pumping System(2015-16) For Micro Pumping Applications (2016-17) Specification for solar photovoltaic water pumping systems |

# SCOPE OF ACCREDITATION

| | | | |
|---|---|---|---|
| **Laboratory Name :** | SCIENTIFIC AND INDUSTRIAL TESTING AND RESEARCH CENTRE, 83 & 84 AVARAMPALAYAM ROAD, K.R.PURAM POST, COIMBATORE, TAMIL NADU, INDIA | | |
| **Accreditation Standard** | ISO/IEC 17025:2017 | | |
| **Certificate Number** | TC-5324 | **Page No** | 80 of 93 |
| **Validity** | 31/03/2023 to 30/03/2025 | **Last Amended on** | 20/06/2023 |

| S.No | Discipline / Group | Materials or Products tested | Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed | Test Method Specification against which tests are performed and / or the techniques / equipment used |
|---|---|---|---|---|
| 1239 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Submersible/Surface motor pumpset, connected to the PV Generator directly or via converter (DC to DC or AC to DC) SPV pumping systems | Photovoltaic pumping systems design qualification and performance measurements - Hot Profile, Cold Profile and Outdoor/Real Condition - Water Output per day/per watts Water Output per day Maximum Shut off Head Input Power | MNRE JNNSM Solar Photovoltaic Water Pumping System for Drinking Water Applications (2014-15) Solar Photovoltaic Water Pumping System(2015-16) For Micro Pumping Applications (2016-17) Specification for solar photovoltaic water pumping systems |
| 1240 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Submersible/Surface motor pumpset, connected to the PV Generator directly or via converter (DC to DC or AC to DC) SPV pumping systems | Photovoltaic pumping systems design qualification and performance measurements - Hot Profile, Cold Profile and Outdoor/Real Condition- Flow | MNRE JNNSM Solar Photovoltaic Water Pumping System for Drinking Water Applications (2014-15) Solar Photovoltaic Water Pumping System(2015-16) For Micro Pumping Applications (2016-17) Specification for solar photovoltaic water pumping systems |
| 1241 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Submersible/Surface motor pumpset, connected to the PV Generator directly or via converter (DC to DC or AC to DC) SPV pumping systems | Photovoltaic pumping systems design qualification and performance measurements - Hot Profile, Cold Profile and Outdoor/Real Condition-Voltage | MNRE JNNSM Solar Photovoltaic Water Pumping System for Drinking Water Applications (2014-15) Solar Photovoltaic Water Pumping System(2015-16) For Micro Pumping Applications (2016-17) Specification for solar photovoltaic water pumping systems |
| 1242 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Submersible/Surface motor pumpset, connected to the PV Generator directly or via converter (DC to DC or AC to DC) SPV pumping systems | Photovoltaic pumping systems design qualification and performance measurements - Hot Profile, Cold Profile and Outdoor/Real Condition-Current | MNRE JNNSM Solar Photovoltaic Water Pumping System for Drinking Water Applications (2014-15) Solar Photovoltaic Water Pumping System(2015-16) For Micro Pumping Applications (2016-17) Specification for solar photovoltaic water pumping systems |
| 1243 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Textile motors - Loom motors (upto & including 3.7kW) | Dimensions-Test | Cl 7 IS 2972(Part 1) |
| 1244 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Textile motors - Loom motors (upto & including 3.7kW) | Dimensions-Test | Cl 7, IS 2972(Part 1) |
| 1245 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Textile motors - Loom motors (upto & including 3.7kW) | Dimensions-Test | Cl 7 IS 2972 (Part - 1) |

# SCOPE OF ACCREDITATION

| | | | |
|---|---|---|---|
| **Laboratory Name :** | SCIENTIFIC AND INDUSTRIAL TESTING AND RESEARCH CENTRE, 83 & 84 AVARAMPALAYAM ROAD, K.R.PURAM POST, COIMBATORE, TAMIL NADU, INDIA | | |
| **Accreditation Standard** | ISO/IEC 17025:2017 | | |
| **Certificate Number** | TC-5324 | **Page No** | 81 of 93 |
| **Validity** | 31/03/2023 to 30/03/2025 | **Last Amended on** | 20/06/2023 |

| S.No | Discipline / Group | Materials or Products tested | Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed | Test Method Specification against which tests are performed and / or the techniques / equipment used |
|---|---|---|---|---|
| 1246 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Three Phase & Single Phase AC Induction Motor | Connection Diagram | IEC 60034-1/ IEC 60034-2-1 ,IEC 60034-8:2007/AMD1 |
| 1247 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Three Phase & Single Phase AC Induction Motor | Direction of Rotation | IEC 60034-1/ IEC 60034-2-1 ,Table 15 of IEC 60034 – 1 Edition 14.0 |
| 1248 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Three Phase & Single Phase AC Induction Motor | Insulation Resistance measurement test @ 500 V DC | IEC 60034-1/ IEC 60034-2-1,Table 15 of IEC 60034 – 1 Edition 14.0 |
| 1249 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Three Phase & Single Phase AC Induction Motor | Load Curve Test - Current | IEC 60034-1/ IEC 60034-2-1,Cl.6 of IEC 60034-2-1,Edition 2.0 |
| 1250 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Three Phase & Single Phase AC Induction Motor | Load Curve Test - Efficiency | IEC 60034-1/ IEC 60034-2-1 ,Cl.6 of IEC60034-2-1,Edition 2.0 |
| 1251 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Three Phase & Single Phase AC Induction Motor | Load Curve Test - Frequency | IEC 60034-1/ IEC 60034-2-1 ,Cl.6 of IEC60034-2-1,Edition 2.0 |
| 1252 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Three Phase & Single Phase AC Induction Motor | Load Curve Test - Input Power | IEC 60034-1/ IEC 60034-2-1 ,Cl.6 of IEC60034-2-1,Edition 2.0 |
| 1253 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Three Phase & Single Phase AC Induction Motor | Load Curve Test - Power Factor | IEC 60034-1/ IEC 60034-2-1 ,Cl.6 of IEC60034-2-1,Edition 2.0 |
| 1254 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Three Phase & Single Phase AC Induction Motor | Load Curve Test - Speed | IEC 60034-1/ IEC 60034-2-1 , Cl.6 of IEC60034-2-1,Edition 2.0 |
| 1255 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Three Phase & Single Phase AC Induction Motor | Load Curve Test - Torque | IEC 60034-1/ IEC 60034-2-1 ,Cl. 6 of IEC 60034-2-1:Edition 2.0 |
| 1256 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Three Phase & Single Phase AC Induction Motor | Load Curve Test - Voltage | IEC 60034-1/ IEC 60034-2-1 ,Cl. 6 of IEC 60034-2-1:Edition 2.0 |
| 1257 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Three Phase & Single Phase AC Induction Motor | Locked Rotor Test - Current | IEC 60034-1/ IEC 60034-2-1 ,Table 21 of IEC 60034 – 1 Edition 14.0 |
| 1258 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Three Phase & Single Phase AC Induction Motor | Locked Rotor Test - Torque | IEC 60034-1/ IEC 60034-2-1 ,Table 21 of IEC 60034 – 1 Edition 14.0 |
| 1259 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Three Phase & Single Phase AC Induction Motor | Momentary Excess Torque Test | IEC 60034-1/ IEC 60034-2-1 ,Cl. 9.4 of IEC 60034 – 1 Edition 14.0 |

# SCOPE OF ACCREDITATION

**Laboratory Name :** SCIENTIFIC AND INDUSTRIAL TESTING AND RESEARCH CENTRE, 83 & 84 AVARAMPALAYAM ROAD, K.R.PURAM POST, COIMBATORE, TAMIL NADU, INDIA

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

**Certificate Number** TC-5324 **Page No** 82 of 93

**Validity** 31/03/2023 to 30/03/2025 **Last Amended on** 20/06/2023

| S.No | Discipline / Group | Materials or Products tested | Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed | Test Method Specification against which tests are performed and / or the techniques / equipment used |
|---|---|---|---|---|
| 1260 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Three Phase & Single Phase AC Induction Motor | No load test - Frequency | IEC 60034-1/ IEC 60034-2-1 ,Table 15 of IEC 60034 – 1 Edition 14.0 |
| 1261 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Three Phase & Single Phase AC Induction Motor | No load Test - Speed | IEC 60034-1/ IEC 60034-2-1 ,Table 15 of IEC 60034 – 1 Edition 14.0 |
| 1262 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Three Phase & Single Phase AC Induction Motor | Over speed test - Frequency | IEC 60034-1/ IEC 60034-2-1 ,Cl. 9.7 of IEC 60034 – 1 Edition 14.0 |
| 1263 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Three Phase & Single Phase AC Induction Motor | Over speed test - Speed | IEC 60034-1/ IEC 60034-2-1 ,Cl. 9.7 of IEC 60034 – 1 Edition 14.0 |
| 1264 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Three Phase & Single Phase AC Induction Motor | Protective Earthing | IEC 60034-1/ IEC 60034-2-1 ,Cl. 11.1 of IEC 60034 – 1 Edition 14.0 |
| 1265 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Three Phase & Single Phase AC Induction Motor | Terminal Markings | IEC 60034-1/ IEC 60034-2-1 ,IEC 60034-8:2007/AMD1 |
| 1266 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Three Phase & Single Phase AC Induction Motor | Winding Resistance Measurement | IEC 60034-1/ IEC 60034-2-1 ,Cl.No. 5.7 of IEC60034-2-1,Edition 2.0 |
| 1267 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Three Phase & Single Phase AC Induction Motor | With Stand Voltage Test - (High Voltage Test) | IEC 60034-1/ IEC 60034-2-1 ,Cl.9.2 of IEC 60034 – 1 Edition 14.0 |
| 1268 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Three phase induction motors for centrifugal pumps for agricultural applications. (Up to & including 15 kW.) | Load Test - Power Factor | Cl 24.4 IS 7538 |
| 1269 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Three phase induction motors for centrifugal pumps for agricultural applications. (Upto & including 15 kW.) | Temperature rise test - Temperature | Cl 11 IS 7538 |
| 1270 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Three phase squirrel cage induction motors for centrifugal pumps for agricultural applications. (Upto & including 15 kW.) | Degree Of Protection By Enclosure | 5, IS/IEC 60034-5 |
| 1271 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Three phase squirrel cage induction motors for centrifugal pumps for agricultural applications. (Upto & including 15 kW.) | Dimensions-Test | Cl 9 IS 7538 |
| 1272 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Three phase squirrel cage induction motors for centrifugal pumps for agricultural applications. (Upto & including 15 kW.) | Dimensions-test | Cl 9 IS 7538 |
| 1273 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Three phase squirrel cage induction motors for centrifugal pumps for agricultural applications. (Upto & including 15 kW.) | Dimensions-test | Cl 9 IS 7538 |

# SCOPE OF ACCREDITATION

**Laboratory Name :** SCIENTIFIC AND INDUSTRIAL TESTING AND RESEARCH CENTRE, 83 & 84 AVARAMPALAYAM ROAD, K.R.PURAM POST, COIMBATORE, TAMIL NADU, INDIA

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

**Certificate Number** TC-5324 **Page No** 83 of 93

**Validity** 31/03/2023 to 30/03/2025 **Last Amended on** 20/06/2023

| S.No | Discipline / Group | Materials or Products tested | Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed | Test Method Specification against which tests are performed and / or the techniques / equipment used |
|---|---|---|---|---|
| 1274 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Three phase squirrel cage induction motors for centrifugal pumps for agricultural applications. (Upto & including 15 kW.) | Direction of rotation | Cl 19 IS 7538 |
| 1275 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Three phase squirrel cage induction motors for centrifugal pumps for agricultural applications. (Upto & including 15 kW.) | High voltage test-Current | Cl 25 IS 7538 |
| 1276 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Three phase squirrel cage induction motors for centrifugal pumps for agricultural applications. (Upto & including 15 kW.) | High Voltage Test-Voltage | Cl 25 IS 7538 |
| 1277 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Three phase squirrel cage induction motors for centrifugal pumps for agricultural applications. (Upto & including 15 kW.) | Insulation resistance test @ 500V DC - Resistance | Cl 26 IS 7538 |
| 1278 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Three phase squirrel cage induction motors for centrifugal pumps for agricultural applications. (Upto & including 15 kW.) | Load Test - Load Torque | Cl 24.4 IS 7538 |
| 1279 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Three phase squirrel cage induction motors for centrifugal pumps for agricultural applications. (Upto & including 15 kW.) | Load test - speed | Cl 24.4 IS 7538 |
| 1280 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Three phase squirrel cage induction motors for centrifugal pumps for agricultural applications. (Upto & including 15 kW.) | Load Test -Current | Cl 24.4 IS 7538 |
| 1281 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Three phase squirrel cage induction motors for centrifugal pumps for agricultural applications. (Upto & including 15 kW.) | Load Test -Frequency | Cl 24.4 IS 7538 |
| 1282 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Three phase squirrel cage induction motors for centrifugal pumps for agricultural applications. (Upto & including 15 kW.) | Load Test -Input power | Cl 24.4 IS 7538 |
| 1283 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Three phase squirrel cage induction motors for centrifugal pumps for agricultural applications. (Upto & including 15 kW.) | Load test-Voltage | Cl 24.4 IS 7538 |
| 1284 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Three phase squirrel cage induction motors for centrifugal pumps for agricultural applications. (Upto & including 15 kW.) | Locked rotor test - Current | Cl 24.3 IS 7538 |
| 1285 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Three phase squirrel cage induction motors for centrifugal pumps for agricultural applications. (Upto & including 15 kW.) | Locked rotor test-Torque | Cl 24.3 IS7538 |
| 1286 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Three phase squirrel cage induction motors for centrifugal pumps for agricultural applications. (Upto & including 15 kW.) | Momentary over load test - torque | Cl 13.1 IS 7538 |
| 1287 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Three phase squirrel cage induction motors for centrifugal pumps for agricultural applications. (Upto & including 15 kW.) | No load test - Frequency | Cl 24.1 IS 7538 |

# SCOPE OF ACCREDITATION

| | | | |
|---|---|---|---|
| **Laboratory Name :** | SCIENTIFIC AND INDUSTRIAL TESTING AND RESEARCH CENTRE, 83 & 84 AVARAMPALAYAM ROAD, K.R.PURAM POST, COIMBATORE, TAMIL NADU, INDIA | | |
| **Accreditation Standard** | ISO/IEC 17025:2017 | | |
| **Certificate Number** | TC-5324 | **Page No** | 84 of 93 |
| **Validity** | 31/03/2023 to 30/03/2025 | **Last Amended on** | 20/06/2023 |

| S.No | Discipline / Group | Materials or Products tested | Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed | Test Method Specification against which tests are performed and / or the techniques / equipment used |
|---|---|---|---|---|
| 1288 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Three phase squirrel cage induction motors for centrifugal pumps for agricultural applications. (Upto & including 15 kW.) | No Load Test - Input power | Cl 24.1 IS 7538 |
| 1289 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Three phase squirrel cage induction motors for centrifugal pumps for agricultural applications. (Upto & including 15 kW.) | No load Test - Speed | Cl 24.1 IS 7538 |
| 1290 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Three phase squirrel cage induction motors for centrifugal pumps for agricultural applications. (Upto & including 15 kW.) | No Load Test - Voltage | Cl 24.1 IS 7538 |
| 1291 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Three phase squirrel cage induction motors for centrifugal pumps for agricultural applications. (Upto & including 15 kW.) | No Load Test-Current | Cl 24.1 IS 7538 |
| 1292 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Three phase squirrel cage induction motors for centrifugal pumps for agricultural applications. (Upto & including 15 kW.) | Over Speed Test - Frequency | Cl 13.1 IS 7538 |
| 1293 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Three phase squirrel cage induction motors for centrifugal pumps for agricultural applications. (Upto & including 15 kW.) | Over Speed test - Speed | Cl 13.1 IS 7538 |
| 1294 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Three phase squirrel cage induction motors for centrifugal pumps for agricultural applications. (Upto & including 15 kW.) | Reduced voltage running up test - Speed | Cl 24.2 IS 7538 |
| 1295 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Three phase squirrel cage induction motors for centrifugal pumps for agricultural applications. (Upto & including 15 kW.) | Resistance of winding - Resistance | Cl 22.3.1b IS 7538 |
| 1296 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Three phase squirrel cage induction motors for centrifugal pumps for agricultural applications. (Upto & including 15 kW.) | Resistance of winding - Resistance | Cl 22.3.1b IS 7538 |
| 1297 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Three phase squirrel cage induction motors for centrifugal pumps for agricultural applications. (Upto & including 15 kW.) | Terminal marking | Cl 19 IS 7538 |
| 1298 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Three phase squirrel cage induction motors for centrifugal pumps for agricultural applications. (Upto & including 15 kW.) | Test for noise Levels of Motor | 16,IS 12065 |
| 1299 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Three phase squirrel cage induction motors for centrifugal pumps for agricultural applications. (Upto & including 15 kW.) | Vibration measurement test - Velocity | Cl 15 IS 7538 |
| 1300 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Three phase squirrel cage induction motors for centrifugal pumps for agricultural applications. (Upto & including 15 kW.) | Vibration measurement test - Displacement | Cl 15 IS 7538 |

# SCOPE OF ACCREDITATION

| | | | |
|---|---|---|---|
| **Laboratory Name :** | SCIENTIFIC AND INDUSTRIAL TESTING AND RESEARCH CENTRE, 83 & 84 AVARAMPALAYAM ROAD, K.R.PURAM POST, COIMBATORE, TAMIL NADU, INDIA | | |
| **Accreditation Standard** | ISO/IEC 17025:2017 | | |
| **Certificate Number** | TC-5324 | **Page No** | 85 of 93 |
| **Validity** | 31/03/2023 to 30/03/2025 | **Last Amended on** | 20/06/2023 |

| S.No | Discipline / Group | Materials or Products tested | Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed | Test Method Specification against which tests are performed and / or the techniques / equipment used |
|---|---|---|---|---|
| 1301 | ELECTRICAL- ROTATING ELECTRICAL MACHINES | Universal Solar Pump Controller (USPC) | Universal Solar Pump Controller qualification and performance measurements - Hot Profile, Cold Profile and Outdoor/Real Condition | MNRE Specification No. 41/3/2018- Annexure - III |
| 1302 | MECHANICAL- MECHANICAL PROPERTIES OF METALS | Ferrous metal and Alloys Samples | Bend Test | IS : 1599 |
| 1303 | MECHANICAL- MECHANICAL PROPERTIES OF METALS | Ferrous metal and Alloys Samples | Brinell Hardness | IS 1500 (Part 1) |
| 1304 | MECHANICAL- MECHANICAL PROPERTIES OF METALS | Ferrous metal and Alloys Samples | Brinell Hardness | IS : 1500 ( Part 1) |
| 1305 | MECHANICAL- MECHANICAL PROPERTIES OF METALS | Ferrous metal and Alloys Samples | Hardness test by Rockwell C scale | IS 1586(Part 1) |
| 1306 | MECHANICAL- MECHANICAL PROPERTIES OF METALS | Ferrous metal and Alloys Samples | Longitudinal Root and Face Bend test on welded joints | IS 3600(Part 7) |
| 1307 | MECHANICAL- MECHANICAL PROPERTIES OF METALS | Ferrous metal and Alloys Samples | Transverse Root and Face Bend test on welded joints | IS 3600 (Part 5) |
| 1308 | MECHANICAL- MECHANICAL PROPERTIES OF METALS | Ferrous metal and Alloys Samples | Transverse Side Bend test on welded joints | IS 3600 (Part 5) |
| 1309 | MECHANICAL- MECHANICAL PROPERTIES OF METALS | Copper materials, alloys and Product sample | % Reduction in Area | IS 1608(Part 1) |
| 1310 | MECHANICAL- MECHANICAL PROPERTIES OF METALS | Copper materials, alloys and Product sample | Bend Test | IS 1599 |
| 1311 | MECHANICAL- MECHANICAL PROPERTIES OF METALS | Copper materials, alloys and Product samples | % Elongation | IS 1608(Part 1) |
| 1312 | MECHANICAL- MECHANICAL PROPERTIES OF METALS | Copper materials, alloys and Product samples | 0.2% Proof Stress | IS 1608(Part 1) |
| 1313 | MECHANICAL- MECHANICAL PROPERTIES OF METALS | Copper materials, alloys and Product samples | Brinell Hardness | IS 1500(Part 1) |