



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



CERTIFICATE OF ACCREDITATION

TESTING ELECTRICAL STANDARDS LABORATORY AND R & D INSTITUTE PRIVATE LIMITED

has been assessed and accredited in accordance with the standard

ISO/IEC 17025:2005

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

for its facilities at

(B1+B2+B3)/24, G.I.D.C. Electronics Estate, Sector-25, Gandhinagar, Gujarat

in the field of

TESTING

Certificate Number TC-6091

Issue Date 30/05/2018

Valid Until 29/05/2020

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)

Signed for and on behalf of NABL



89076970100030001335

Anil Relia

Anil Relia
Chief Executive Officer



National Accreditation Board for Testing and Calibration Laboratories

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SCOPE OF ACCREDITATION

Laboratory Testing Electrical Standards Laboratory and R & D Institute Private Limited, (B1+B2+B3)/24, G.I.D.C. Electronics Estate, Sector-25, Gandhinagar, Gujarat

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-6091

Page 1 of 25

Validity 30.05.2018 to 29.05.2020

Last Amended on 01.01.2019

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
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ELECTRICAL TESTING

I. ROTATING ELECTRICAL MACHINES				
1.	Submersible pump set (0.37 kW to 75 kW)	Verification of Marking/ Rating plate	IS 8034:2018 Cl. No. 14	Qualitative
	Regenerative self priming pump (0.18 kW to 3.7 kW)		IS 8472:1998 Cl. No. 17.1	
	Monoset pump for agricultural purpose (0.37 kW to 25 kW)		IS 9079:2018 Cl. No. 15	
	Submersible Motors (0.37 kW to 75 kW)		IS 9283:2013 Cl. No. 15	
	Pumps sewage and drainage (0.37 kW to 75 kW)		IS 5600:2002 Cl. 19	
	Openwell submersible pump set (0.12 kW to 45 kW)		IS 14220:2018 Cl. No. 18	

Neeraj Verma
Convenor

Birendra Prasad Murmu
Program Manager



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Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-6091

Page 2 of 25

Validity 30.05.2018 to 29.05.2020

Last Amended on 01.01.2019

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	1-Phase Induction motor for Agricultural Purpose (0.37 kW to 3.7 kW)		IS 14582:1998 Cl. No. 15.1	
	Textile Motor (0.37 kW to 22 kW)		IS 2972-1:1979 Cl. No. 15	
	Squirrel cage induction motor for centrifugal and agricultural purpose (0.37 kW to 15 kW)		IS 7538:1996 Cl. No.: 20.1	
	3-Phase Energy Efficient induction motor (0.12 kW to 45 kW)		IS 12615:2018 Cl. No. 18 & IS/IEC 60034-1:2010 (IS 15999(Part 1-2016)) Cl. No. 10.2	
	1-ph AC Induction Motor (0.12 kW to 2.2 kW)		IS 996:2009 Cl. No. 16	
2.	Squirrel cage induction motor for centrifugal and agricultural purpose (0.37 kW to 15 kW)	Verification of Terminal marking	IS 7538:1996 Cl. No. 19.1.1	Qualitative

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Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-6091

Page 3 of 25

Validity 30.05.2018 to 29.05.2020

Last Amended on 01.01.2019

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	1-Phase Induction motor for Agricultural purpose (0.37 kW to 3.7 kW)		IS 14582:1998, Cl. No. 14	
	3 Phase Energy Efficient induction motor (0.12 kW to 45 kW)		IS 12615:2018 Cl. No. 9 & IS/IEC 60034-8:2002	
	Textile Motor (0.37 kW to 22 kW)		IS 2972-1:1979 Cl. No. 15.1	
	Submersible Motors (0.37 kW to 75 kW)		IS 9283:2013 Cl. No. 13	
	1-ph AC Induction Motor (0.12 kW to 2.2 kW)		IS 996:2009 Cl. No. 14	
	Submersible pump set (0.37 kW to 75 kW)		IS 8034:2018 Cl. No. 8.8	
	Monoset pump for agricultural purpose (0.37 kW to 25 kW)		IS 9079:2018 Cl. No. 10.6	
	Openwell submersible pump set		IS 14220:2018 Cl. No. 10.7	

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Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-6091

Page 4 of 25

Validity 30.05.2018 to 29.05.2020

Last Amended on 01.01.2019

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3.	(0.12 kW to 45 kW) Submersible pump set (0.37 kW to 75 kW)	Submersible Cable	IS 8034:2018 Cl. No. 8.6	1 mm to 5000 mm
4.	Submersible pump set (0.37 kW to 75 kW)	Typical Installation Diameter of Pumpsets	IS 8034:2018 Cl. No. 8.9.4	0.02 mm to 1000 mm
5.	Squirrel cage induction motor for centrifugal and agricultural purpose (0.37 kW to 15 kW)	Earthing	IS 7538:1996 Cl. No. 11	Qualitative
	Openwell submersible pump set (0.12 kW to 45 kW)		IS 14220:2018 Cl. No. 10.6	
	Submersible Motor (0.37 kW to 75 kW)		IS 9283:2013 Cl. No. 5.2.1	
	Textile Motor (0.37 kW to 22 kW)		IS 2972-1:1979 Cl. No. 9	
	3-Phase Energy Efficient induction motor (0.12 kW to 45 kW)		IS 12615:2018 & Cl.No. 8 & IS/IEC 60034-1:2010 (IS 15999(Part 1-2016)) Cl No. 11.1	

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Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-6091

Page 5 of 25

Validity 30.05.2018 to 29.05.2020

Last Amended on 01.01.2019

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	Monoset pump for agricultural purpose (0.37 kW to 25 kW)		IS 9079:2018 Cl. No. 10.5	
	1-ph AC Induction Motor (0.12 kW to 2.2 kW)		IS 996:2009 Cl. No. 9.5	
6.	Monoset pump for agricultural purpose (0.37 kW to 25 kW)	Stator Resistance	IS 9079:2018 Cl.No. 11.18.1 (a)	1999 $\mu\Omega$ to 19.99 K Ω
	Submersible Motors (0.37 kW to 75 kW)		IS 9283:2013 Cl. No.16.1 (c)	
	Submersible pump set (0.37 kW to 75 kW)		IS 8034:2018 Cl. No. 9.10(c)	
	Openwell submersible pump set (0.37 kW to 45 kW)		IS 14220:2018 Cl. No.14.10.1(c)	
	3-Phase Energy Efficient induction motor (0.12 kW to 45 kW)		IS12615:2011 Cl. No 16.1.2 & IS/IEC 60034-1:2010 (IS 15999(Part 1-2016)) Cl No. 5.7	
	Textile Motor (0.37 kW to 22 kW)		IS 2972-1:1979 Cl. No 18.3.1(a)	

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Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-6091

Page 6 of 25

Validity 30.05.2018 to 29.05.2020

Last Amended on 01.01.2019

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	Squirrel cage induction motor for centrifugal and agricultural purpose (0.37 kW to 15 kW)		IS7538:1996 Cl. No.: 22.3.1(b)	
	1-Phase Induction motor for Agricultural Purpose (0.37 kW to 3.7 kW)		IS14582:1998 Cl. No.:16.2 (a)	
7.	Monoset pump for agricultural purpose (0.37 kW to 25 kW)	No Load Test at Rated Voltage	IS 9079:2018 Cl. No. 11.18.1(d)	1 RPM to 99999 RPM 0.01 to 600 V 0.01 to 250A 0.01 to 75 kW
	Submersible Motors (0.37 kW to 75 kW)		IS 9283:2013 Cl. No. 16.1 (d)	
	Submersible pump set (0.37 kW to 75 kW)		IS 8034:2018 Cl. No. 9.9(c)	
	Openwell submersible pump set (0.37 kW to 45 kW)		IS 14220:2018 Cl. No. 14.10.1(d)	
	Regenerative self priming pump (0.18 kW to 3.7 kW)		IS 8472:1998 Cl. No.: 14.1.2	

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Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-6091

Page 7 of 25

Validity 30.05.2018 to 29.05.2020

Last Amended on 01.01.2019

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	3-Phase Energy Efficient induction motor (0.12 kW to 45 kW)		IS 12615:2018 Cl. No. 16.1.3 & IEC 60034-2-1:2007 Cl. No. 6.1.3.2.4	
	Textile motor (0.37 kW to 22 kW)		IS 2972-1:1979 Cl. No. 18.3.1 (b)	
	Squirrel cage induction motor for centrifugal and agricultural purpose (0.37 kW to 15 kW)		IS 7538:1996 Cl. No.: 22.3.1(c)	
	1-Phase Induction motor for Agricultural Purpose (0.37 kW to 3.7 kW)		IS 14582:1998 Cl. No.: 16.2 (b)	
	1-Phase Induction motor (0.12 kW to 2.2 kW)		IS 996:2009 Cl. No.: 17.3(a)	
8.	Monoset pump for agricultural purpose (0.37 kW to 25 kW)	Reduced voltage Running up	IS 9079:2018 Cl. No. 11.18.1(g)	1 RPM to 99999 RPM 0.01 V to 600 V 0.01A to 250A
	Submersible Motors (0.37 kW to 75 kW)		IS 9283:2013 Cl. No. 16.1 (e)	

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Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-6091

Page 8 of 25

Validity 30.05.2018 to 29.05.2020

Last Amended on 01.01.2019

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	Submersible pump set (0.37 kW to 75 kW)		IS 8034:2018 Cl. No. 9.10(e)	
	Openwell submersible pump set (0.12 kW to 45 kW)		IS 14220:2018 Cl. No.: 14.9.1(e)	0.01 kW to 75 kW
	3-Phase Energy Efficient induction motor (0.12 kW to 45 kW)		IS 12615:2018 Cl. No 16.1.5	
	Textile Motor (0.37 kW to 22 kW)		IS 2972-1:1979 Cl. No. 18.3.1 (c)	
	Squirrel cage induction motor for centrifugal and agricultural purpose (0.37 kW to 15 kW)		IS 7538:1996 Cl. No.: 22.3.1(d)	
9.	3-Phase Energy Efficient induction motor (0.12 kW to 45 kW)	Full load / Load / Determination of Efficiency	IS 12615:2018 Cl. No. 15 & IS/IEC 60034-1:2010 (IS 15999(Part 1-2016)) Cl No. 6 & 8	0.01 A to 150 A
	Textile Motor (0.37 kW to 22 kW)		IS 2972-1:1979 Cl. No. 18.3.1 (e)	
	Squirrel cage induction motor		IS 7538:1996 Cl. No.: 22.3.1(f)	1 RPM to 99999 RPM 0.01 V to 600 V

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Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-6091

Page 9 of 25

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Last Amended on 01.01.2019

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	for centrifugal and agricultural purpose (0.37 kW to 15 kW)			0.01 kW to 75 kW
	1-Phase Induction motor for Agricultural Purpose (0.37 kW to 3.7 kW)		IS 14582:1998 Cl. No.: 16.2 (e)	
	Submersible Motors (0.37 kW to 75 kW)		IS 9283:2013 Cl. No. 16.1 (g)	
	1-Phase Induction motor (0.12 kW to 2.2 kW)		IS 996:2009 Cl. No. 17.3(d)	
10.	Squirrel cage induction motor for centrifugal and agricultural purpose (0.37 kW to 15 kW)	Momentary overload	IS 7538:1996 Cl. No.: 22.3.1(k)	Qualitative
	1-Phase Induction motor for Agricultural purpose (0.37 kW to 3.7 kW)		IS 14582:1998 Cl. No.: 16.2 (j)	
	Energy Efficient Induction Motors		IS 12615:2018 Cl. No. 12.1	

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Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-6091

Page 10 of 25

Validity 30.05.2018 to 29.05.2020

Last Amended on 01.01.2019

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	- Three Phase Squirrel Cage (0.12 kW to 45 kW)		& IS/IEC 60034-1:2010 (IS 15999 (Part 1-2016) Cl No. 9.4	
	Textile Motors (0.37 kW to 22 kW)		IS 2972-1:1979 Cl. No. 18.3.1 (f)	
	Submersible pump set (0.37 kW to 75 kW)		IS 8034:2018 Cl. No. 9.10(m)	
	Submersible Motors (0.37 kW to 75 kW)		IS 9283:2013 Cl. No. 16.1 (m)	
	1-Phase Induction motor (0.12 kW to 2.2 kW)		IS 996:2009 Cl. No. 17.3(f)	
11.	Regenerative self priming pump (0.18 kW to 3.7 kW)	Temperature Rise at Rated Voltage	IS 8472:1998 Cl. No.: 14.1.2.1.1	0 to 200°C 1999 μΩ to 19.99 KΩ
	Monoset pump for agricultural purpose (0.37 kW to 25 kW)		IS 9079:2018 Cl.No. 11.4	
	Openwell submersible pump set (0.12 kW to 45 kW)		IS 14220:2018 Cl. No.: 4.6.5	0.01V to 600 V 0.01 A to 250 A 0.01kW to 75 kW 1 RPM to 99999 RPM 0.1 Nm to 500 Nm

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Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-6091

Page 11 of 25

Validity 30.05.2018 to 29.05.2020

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	Submersible pump set (0.37 kW to 75 kW)		IS 8034:2018 Cl. No. 9.5.2	
	3-Phase Energy Efficient induction motor (0.12 kW to 45 kW)		IS 12615:2018 Cl. No. 13 IS/IEC 60034-1:2010 (IS 15999(Part 1-2016) Cl No.8.6.2	
	Textile Motor (0.37 kW to 22 kW)		IS 2972-1:1979 Cl. No. 18.3.1 (g)	
	Submersible Motors (0.37 kW to 75 kW)		IS 9283:2013 Cl. No. 16.1 (j)	
	Squirrel cage induction motor for centrifugal and agricultural purpose (0.37 kW to 15 kW)		IS 7538:1996 Cl. No.: 22.3.1(h)	
	1-Phase Induction motor for Agricultural Purpose (0.37 kW to 3.7 kW)		IS 14582:1998 Cl. No.: 16.2 (g)	
	1-Phase Induction motor (0.12 kW to 2.2 kW)		IS 996:2009 Cl. No. 17.3(e)	

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Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-6091

Page 12 of 25

Validity 30.05.2018 to 29.05.2020

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12.	Regenerative self priming pump (0.18 kW to 3.7 kW)	Temperature Rise at Reduced Voltage/ at limiting value of voltage and frequency variation.	IS 8472:1998 Cl. No.: 14.1.2.1.2	0 to 200°C 1999 μΩ to 19.99 KΩ 0.01 V to 600 V 0.01 A to 250A 0.01 kW to 75 kW 1 RPM to 99999 RPM
	Monoset pump for agricultural purpose (0.37 kW to 25 kW)		IS 9079:2018 Cl. No. 11.4	
	Openwell submersible pump set (0.12 kW to 45 kW)		IS 14220:2018 Cl. No.: 14.6.6	
	Submersible pump set (0.37 kW to 75 kW)		IS 8034:2018 Cl. No. 9.5.3	
	Submersible Motors (0.37 kW to 75 kW)		IS 9283:2013 Cl. No. 16.1 (k)	
	1-Phase Induction motor for Agricultural purpose (0.37 kW to 3.7 kW)		IS 14582:1998 Cl. No.: 16.2 (h)	
	Squirrel cage induction motor for centrifugal and agricultural purpose		IS 7538:1996 Cl. No.: 22.3.1(j)	

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Certificate Number TC-6091

Page 13 of 25

Validity 30.05.2018 to 29.05.2020

Last Amended on 01.01.2019

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	(0.37 kW to 15 kW) 3-Phase Energy Efficient induction motor (0.12 kW to 45 kW)		IS 12615:2018 Cl. No. 16.3.5	
13.	Regenerative self priming pump (0.37 kW to 3.7 kW)	Locked Rotor	IS 8472:1998 Cl. No.: 14.1.2	0.01 A to 250 A 0.01 Nm to 500 Nm 0.01 V to 600 V 0.01 kW to 75 kW
	Openwell submersible pump set (0.37 kW to 45 kW)		IS 14220:2018 Cl. No. 14.10.1(f)	
	Submersible pump set (0.37 kW to 75 kW)		IS 8034:2018 Cl. No. 9.10(f)	
	Monoset pump for agricultural purpose (0.37 kW to 25 kW)		IS 9079:2018 Cl.No. 11.8.1(e)	
	3-Phase Energy Efficient induction motor (0.12 kW to 45 kW)		IS 12615:2018 Cl. No. 16.1.4 & 16.2.2	
	Textile Motor (0.37 kW to 22 kW)		IS 2972-1:1979 Cl. No. 18.3.1 (d)	
	Submersible Motors		IS 9283:2013	

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Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-6091

Page 14 of 25

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Last Amended on 01.01.2019

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	(0.37 kW to 75 kW)		Cl. No. 16.1 (f)	
	Squirrel cage induction motor for centrifugal and agricultural purpose (0.37 kW to 15 kW)		IS 7538:1996 Cl. No.: 22.3.1(e)	
	1-Phase Induction motor for Agricultural Purpose (0.37 kW to 3.7 kW)		IS 14582:1998 Cl. No.: 16.2 (d)	
14.	- Squirrel cage induction motor for centrifugal and agricultural purpose (0.37 kW to 15 kW)	Efficiency at reduced voltage	IS 7538:1996 Cl. No.: 22.3.1(g)	0.01 A to 150 A 1 to 99999 RPM
15.	Regenerative self priming pump (0.18 kW to 3.7 kW)	High Voltage / High Potential / Withstand voltage	IS 8472:1998 Cl. No.: 14.1.2	Qualitative (up to 5 kV)
	Monoset pump for agricultural purpose (0.37 kW to 25 kW)		IS 9079:2018 Cl. No. 11.8.1(b)	
	Openwell submersible		IS 14220:2018 Cl. No. 14.10.1(b)	

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Certificate Number TC-6091

Page 15 of 25

Validity 30.05.2018 to 29.05.2020

Last Amended on 01.01.2019

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	pump set (0.12 kW to 45 kW)			
	Submersible pump set (0.37 kW to 75 kW)		IS 8034:2018 Cl. No. 9.10(b)	
	3-Phase Energy Efficient induction motor (0.12 kW to 45 kW)		IS 12615:2018 Cl. No. 16.1.6 & IS/IEC 60034-1:2010 (IS 15999(Part 1-2016) Cl. No. 9.2	
	Textile Motor (0.37 kW to 22 kW)		IS 2972-1:1979 Cl. No. 18.3.1 (h)	
	Submersible Motors (0.37 kW to 75 kW)		IS 9283:2013 Cl. No. 16.1 (b)	
	Squirrel cage induction motor for centrifugal and agricultural purpose (0.37 kW to 15 kW)		IS 7538:1996 Cl. No.: 22.3.1(n)	
	1-Phase Induction motor for Agricultural Purpose (0.37 kW to 3.7 kW)		IS 14582:1998 Cl. No.: 16.2 (m)	
	1-Phase Induction motor		IS 996:2009 Cl. No.: 17.3 (h)	

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Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-6091

Page 16 of 25

Validity 30.05.2018 to 29.05.2020

Last Amended on 01.01.2019

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16.	(0.12 kW to 2.2 kW)	Insulation Resistance		0.01 MΩ to 500MΩ
	Regenerating self priming pump (0.18 kW to 3.7 kW)		IS 8472:1998 Cl. No.: 14.1.2	
	Monoset pump for agricultural purpose (0.37 kW to 25 kW)		IS 9079:2018 Cl.No. 11.8.1(c)	
	Submersible Motors (0.37 kW to 75 kW)		IS 9283:2013 Cl. No. 16.1 (a)	
	Submersible pump set (0.37 kW to 75 kW)		IS 8034:2018 Cl. No. 19.10(a)	
	Open well submersible pump set (0.12 kW to 45 kW)		IS 14220:2018 Cl. No. 14.10.1(a)	
	Energy Efficient Induction Motors - Three Phase Squirrel Cage (0.12 kW to 45 kW)		IS 12615:2018 Cl. No. 16.1.1	
	Textile Motor (0.37 kW to 22 kW)		IS 2972-1:1979 Cl. No. 18.3.1 (j)	
Squirrel cage	IS 7538:1996			

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Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-6091

Page 17 of 25

Validity 30.05.2018 to 29.05.2020

Last Amended on 01.01.2019

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	induction motor for centrifugal and agricultural purpose (0.37 kW to 15 kW)		Cl. No.: 22.3.1(m)	
	1-Phase Induction motor for Agricultural Purpose (0.37 kW to 3.7 kW)		IS 14582:1998 Cl. No.: 16.2 (k)	
	1-Phase Induction motor (0.12 kW to 2.2 kW)		IS 996:2009 Cl. No.: 17.3 (g)	
17.	Induction Motors - Three Phase Squirrel Cage (0.37 to 15 kW)	Vibration	IS 7538:1996 Cl. No. 22.3.1 (p)	0.1 mm/s to 199 mm/s
	Energy Efficient Induction Motors - Three Phase Squirrel Cage (0.12 kW to 45 kW)		IS 12615:2018 Cl. No. 16.3.1	
	Textile Motor (0.37 kW to 22 kW)		IS 2972-1:1979 Cl No. 11	
	1-Phase Induction motor (0.12 kW to 2.2 kW)		IS 996:2009 Cl. No.; 17.3 (m)	

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Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-6091

Page 18 of 25

Validity 30.05.2018 to 29.05.2020

Last Amended on 01.01.2019

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
18.	Submersible motor (0.37 kW to 75 kW)	Performance characteristic	IS 9283:2013 Cl. No. 16.1 (h)	Efficiency 0.37 kW to 75 kW
19.	Regenerative self priming pump (0.18 kW to 3.7 kW)	Pump Performance - Voltage - Current - Power - Speed - Head - Flow	IS 8472:1998 Cl. No.: 13	0.01 A to 250 A 0.01 V to 600 V 0.01 kW to 75 kW
	Monoset pump for agricultural purpose (0.37 kW to 25 kW)		IS 9079:2018 Cl. No. 13	
	Pumps sewage and drainage (0.37 kW to 75 kW)		IS 5600:2002 Cl. No.: 13	
	Submersible pump set (0.37 kW to 75 kW)		IS 8034:2018 Cl. No. 11	
	Open well submersible pump set (0.12 kW to 45 kW)		IS 14220:2018 Cl. No.: 14	
20.	Open well submersible pump set (0.12 kW to 45 kW)	Hydrostatic	IS 14220:2018 Cl. No. 15.5	Qualitative
	Regenerative self priming pump		IS 8472:1998 Cl. No.: 13.3	

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National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Testing Electrical Standards Laboratory and R & D Institute Private Limited, (B1+B2+B3)/24, G.I.D.C. Electronics Estate, Sector-25, Gandhinagar, Gujarat

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-6091

Page 19 of 25

Validity 30.05.2018 to 29.05.2020

Last Amended on 01.01.2019

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	(0.18 kW to 3.7 kW) Submersible pump set (0.37 kW to 75 kW) Monoset pump for agricultural purpose (0.37 kW to 25 kW)		IS 8034:2018 Cl. No. 10.3 IS 9079:2018 Cl.No. 12.6	
21.	Regenerative self priming pump (0.18 kW to 3.7 kW) Submersible pump set (0.37 kW to 75 kW) Monoset pump for agricultural purpose (0.37 kW to 25 kW) Pumps sewage and drainage (0.37 kW to 75 kW)	Direction of Rotation	IS 8472:1998 Cl. No.: 9 IS 8034:2018 Cl. No. 8.7 IS 9079:2018 Cl.No. 10.6 IS 5600:2002 Cl. No.: 7	Qualitative
22.	Energy Efficient Induction Motors - Three Phase Squirrel Cage (0.12 kW to 45 kW)	Pull up & Pull out Torque	IS 12615:2018 Cl.No.12.2	0.01 N-m to 500 N-m

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National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Testing Electrical Standards Laboratory and R & D Institute Private Limited, (B1+B2+B3)/24, G.I.D.C. Electronics Estate, Sector-25, Gandhinagar, Gujarat

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-6091

Page 20 of 25

Validity 30.05.2018 to 29.05.2020

Last Amended on 01.01.2019

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Textile Motor (0.37 kW to 22 kW)		IS 2972-1:1979 Cl No. 12.2, 12.3	
	1-Phase Induction motor (0.12 kW to 2.2 kW)		IS 996:2009 Cl.No.12.1.1	
23.	Submersible motor (0.37 kW to 75 kW)	Leakage Current	IS 9283:2013 Cl. No. 16.1 (n)	0.1 mA to 200 mA
	Submersible pump set (0.37 kW to 75 kW)		IS 8034:2018 Cl. No. 9.4	
	Openwell submersible pump set (0.12 kW to 45 kW)		IS 14220:2018 Cl. No.: 14.5	
	1-Phase Induction motor (0.12 kW to 2.2 kW)		IS 996:2009 Cl. No: 17.3(k)	
24.	Squirrel cage induction motor for centrifugal and agricultural purpose (0.37 kW to 15 kW)	Dimension	IS 7538:1996 Cl. No.: 22.3.1(a)	0.02 mm to 1000 mm
	3-Phase Energy Efficient induction motor (0.12 kW to 45 kW)		IS 12615:2018 Cl. No. 16.2.1	

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National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Testing Electrical Standards Laboratory and R & D Institute Private Limited, (B1+B2+B3)/24, G.I.D.C. Electronics Estate, Sector-25, Gandhinagar, Gujarat

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-6091

Page 21 of 25

Validity 30.05.2018 to 29.05.2020

Last Amended on 01.01.2019

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Submersible motor (0.37 kW to 75 kW)		IS 9283:2013 Cl. No. 7.1	
	1-Phase Induction motor (0.12 kW to 2.2 kW)		IS 996:2009 Cl. No. 17.3(n)	
25.	Regenerative self priming pump (0.18 kW to 3.7 kW)	Priming	IS 8472:1998 Cl. No.: 13.5	0.1 s to 3600 s
26.	Open well submersible pump set (0.12 kW to 45 kW)	Balancing of rotor / Balancing of Impeller	IS 14220:2018 Cl. No. 10.5	Qualitative
	Submersible pump set (0.37 kW to 75 kW)		IS 8034:2018 Cl. No. 8.5	
	Submersible motor (0.37 kW to 75 kW)		IS 9283:2013 Cl. No. 5.6	
27.	Submersible pump set (0.37 kW to 75 kW)	Constructional Details/ Constructional Features/	IS 8034:2018 Cl. No. 6.0	Qualitative
	Regenerative self priming pump (0.18 kW to 3.7 kW)	Constructional Requirements	IS 8472:1998 Cl. No.: 8	

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SCOPE OF ACCREDITATION

Laboratory Testing Electrical Standards Laboratory and R & D Institute Private Limited, (B1+B2+B3)/24, G.I.D.C. Electronics Estate, Sector-25, Gandhinagar, Gujarat

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-6091

Page 22 of 25

Validity 30.05.2018 to 29.05.2020

Last Amended on 01.01.2019

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Monoset pump for agricultural purpose (0.37 kW to 25 kW)		IS 9079:2018 Cl. No. 7&10	
	Openwell submersible pump set (0.12 kW to 45 kW)		IS 14220:2018 Cl. No. 7	
	Submersible motor (0.37 kW to 75 kW)		IS 9283:2013 Cl. No. 5	
	1-Phase Induction motor (0.12 kW to 2.2 kW)		IS 996:2009 Cl. No. 9	
28.	Monoset pump for agricultural purpose (0.37 kW to 25 kW)	Design features/ Guarantee of Performance	IS 9079:2018 Cl.No. 9 & 13	Qualitative
	Openwell submersible pump set (0.12 kW to 45 kW)		IS 14220:2018 Cl. No. 8	
	Submersible pump set (0.37 kW to 75 kW)		IS 8034:2018 Cl. No. 7	
29.	Submersible pump set (0.37 kW to 75 kW)	Shaft Extension / concentricity of Mounting Rabbit and Shaft / Perpendicularity of	IS 8034:2018 Cl. No. 8	0.01 to 10 mm

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National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Testing Electrical Standards Laboratory and R & D Institute Private Limited, (B1+B2+B3)/24, G.I.D.C. Electronics Estate, Sector-25, Gandhinagar, Gujarat

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-6091

Page 23 of 25

Validity 30.05.2018 to 29.05.2020

Last Amended on 01.01.2019

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Submersible motor (0.37 kW to 75 kW)	Mounting face of flange to shaft	IS 9283:2013 Cl. No. 7.2.2	
30.	Submersible pump set (0.37 kW to 75 kW)	Voltage & Frequency variation	IS 8034:2018 Cl. No. 7.1.10	Qualitative
	Submersible motor (0.37 kW to 75 kW)		IS 9283:2013 Cl. No. 6.2	
31.	Submersible pump set (0.37 kW to 75 kW)	Surface finish test/ bearing or roughness testing	IS 8034:2018 Cl. No. 8.4.2	0 to 200 µm Ra
	Openwell submersible pump set (0.12 kW to 45 kW)		IS 14220:2018 Cl. No. 10.4.2	
	Submersible motor (0.37 kW to 75 kW)		IS 9283:2013 Cl. No. 5.5	
32.	1-Phase Induction motor (0.12 kW to 2.2 kW)	Method of Cooling	IS 996:2009 Cl. No. 11	Qualitative
	3-Phase Energy Efficient induction motor (0.12 kW to 45 kW)		IS 12615:2018 Cl. No. 6	

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National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Testing Electrical Standards Laboratory and R & D Institute Private Limited, (B1+B2+B3)/24, G.I.D.C. Electronics Estate, Sector-25, Gandhinagar, Gujarat

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-6091

Page 24 of 25

Validity 30.05.2018 to 29.05.2020

Last Amended on 01.01.2019

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
33.	1-Phase Induction motor (0.12 kW to 2.2 kW)	Torques at rated voltage and frequency / Break away starting current at rated voltage and frequency / locked rotor test	IS 996:2009 / Cl. No. 17.3 (b) IS 996:2009 Cl. No. 17.3 (c)	0.01 N-m to 500 N-m 0.01 A to 150 A
34.	1-Phase Induction motor (0.12 kW to 2.2 kW)	Moisture proofness	IS 996:2009 Cl. No. 17.3 (j)	Qualitative
35.	Energy Efficient Induction Motors - Three Phase Squirrel Cage (0.12 kW to 45 kW)	Over speed test	IS 12615:2018 Cl. No. 16.3.4	1 RPM to 99999 RPM
	Squirrel Cage Induction Motor for Centrifugal and Agricultural Purpose (0.37 kW to 15 kW)		IS 7538:1996 Cl. No. 22.3 (s)	
36.	Energy Efficient Induction Motors - Three Phase Squirrel Cage (0.12 kW to 45 kW)	Testing for degree of protection (IP44 & IP2X)	IS 12615:2018 Cl. No 16.3.3 & OF IS / IEC 60034_5 Cl. No. 4, 8, 9	Qualitative
	1-Phase Induction Motor (0.12 kW to 2.2 kW)		IS 996:2009 Cl. No. 10 OF IS / IEC 60034_5 Cl. No. 4, 8, 9	

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SCOPE OF ACCREDITATION

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Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-6091

Page 25 of 25

Validity 30.05.2018 to 29.05.2020

Last Amended on 01.01.2019

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
37.	1-Phase Induction motor (0.12 kW to 2.2 kW)	Switching Operation of Centrifugal Switch at No Load	IS 996:2009 Cl. No. 9.4.6.1	Qualitative

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