



**NABL**  
ACCREDITED LABORATORY

# AMIT TEST AND CALIBRATION CENTRE



***Recognised by :***

**BUREAU OF INDIAN STANDARDS (BIS)**

***Accredited by :***

**NATIONAL ACCREDITATION BOARD FOR  
TESTING AND CALIBRATION LABORATORIES (NABL)  
DEPARTMENT OF SCIENCE & TECHNOLOGY  
GOVERNMENT OF INDIA**

## ***ABOUT US***

Amit Test and Calibration has been established with an objective to provide the best quality of testing and calibration services using well equipped infrastructure with the help of highly qualified technical personnel

The Laboratory is accredited by National Accreditation Board for Testing and Calibration Laboratories (NABL) Department of Science & Technology, Government of India. NABL is a Member of International Laboratory Accreditation Cooperation (ILAC) and Asia Pacific Laboratory Accreditation Cooperation (APLAC) which ensures international acceptability of our results. Our laboratory is also recognized by Bureau of Indian Standards (BIS) Ministry of Consumer Affairs, Government of India.

It is one of the prominent service providers in the field of Testing Services. Our esteemed organization in a very short span of time have developed a strong cliental across all industries including the Govt. and Non Govt. organizations.

We offer the accurate, reliable, dependable, timely quality testing services in the field of Electronic & IT Products, Electrical Wire & Cables, Home Appliances, Industrial Chemicals Testing, etc.

With a team of skilled specialists Amit Test & Calibration Centre is unique in offering quality and cost effective services to its clients; our highly knowledgeable and experience team of Scientists, Analyst and Engineers always strives to improve its current testing and quality control methodologies, acquiring advance skill set in their respective field by adopting more stringent quality control measures.

### **Manohar Singh (CEO)**

Mr. Manohar Singh Jadon, CEO is been Mechanical Engineer having a wide experience in the field of quality control of cables & wires since 1979. He started his own firm named "Amit Scientific Instruments" and started designing, development manufacturing of testing intruments. He made several instruments suitable for various testing jobs. He established his own laboratory at Sarai Rohilla, Old Rohtak Road, Delhi with the name "Amit Test and Calibration Centre". Encouraged by the success/performance of this laboratory, He decided to set up another laboratory. He formed another laboratory in the same name of Amit Test and Calibration Centre at Prahaladpur, Delhi.

## ***SPECIALITES***

The quality of the products mainly depends on the quality of material and technology used. A high quality instruments / products need proper evaluation of its quality. This can be ensured only if they are calibrated or tested using reliable instruments / and reference standards. We at Amit Test & Calibration Centre precisely do that through our highly professional and motivated staff, using reliable, accurate and standard test and calibration methods. We use high accuracy reference standards and testing instruments which are traceable to National / International Standards. In addition to this, there are several other advantages of availing our services.

- Ø We are the most ethical and trust worthy group of laboratories who provide reliable and accurate testing results.
- Ø Time Bound completion of jobs and delivery of your instruments / products.
- Ø Qualified and Competent staff.
- Ø Proper Environmental controlled laboratory.
- Ø Wider range of Calibration & Testing facilities.
- Ø Economical Cost.
- Ø Sophisticated Testing facility.
- Ø Pick and drop services for testing samples.
- Ø Our Certificates are acceptable to all the government and other agencies such as DGS&D, BIS (ISI Mark), BEE (Star Level), ISO, CE Marking, other Authorities of Government of India and all member countries of APLAC & ILAC. Our Test Reports are valid for registration and acceptance of goods under DGS&D rate contracts





## SERVICES AT A GLANCE

### 1. IT & ELECTRONICS TESTING:

- Laptop / Notebook / Tablets
- Wireless Keyboards
- Set top Box
- Plasma/ LCD/ LED
- Visual Display Units
- Printers, Plotters
- Scanners
- Telephone Answering Machines
- Automatic Data Processing Machines
- Power Adaptor for IT Equipment
- Mobile Phones
- Cash Registers
- Point of Sale Terminals
- Copying Machines/Duplicators
- Smart Card Readers
- Mail processing machines
- Passport readers
- UPS, Cell & Batteries
- Digital Clock
- Microwave Oven



### 2. ELECTRICAL TESTING:

- Electrical Wire, Cables & Conductors
- Energy Meters
- Electrical Kitchen & Home Appliances
- Appliances for Skin & Hair Care
- Fan, Motors, Irons, Geysers
- Electrical Equipments for Lab.use
- Electrical Equipments of Machines
- Degree of Protection



### 3. OPTICAL/PHOTOMETRY TESTING:

- LED Lamps & Luminaires
- GLS, CFLs, TFLs, HPMV, HPSV etc.
- Streetlights & Floodlights

### 4. CHEMICAL TESTING :

- Ferrous & Non-Ferrous Alloys
- Copper Alloys
- Aluminium Alloys
- Zinc Alloys
- Lead
- Aluminum & Aluminum Products
- Stainless Steel



## ***TESTING FACILITIES***

IS: 16102 (Part 1): 2012 ( Self Ballasted LED Lamps for General Lighting Services-Safety Requirements)

IS: 15885 (Part 2 / Sec 13): 2012( Safety of Lamp Controlgear Part 2 Particular Requirements Section 13 d.c. Supplied Electronic Controlgear for LED Modules)

IS: 10322 (Part 5 / Sec 1): 2012(Fixed General Purpose LED Luminaires)



## TESTING FACILITIES

### Information Technology Equipments (Safety Requirement)

IS : 13252 / IEC : 60950-1

Printer

Scanner

ADP

Notebook

Tablet

All in One PC

Monitor

Wireless Keyboard

Laptop

Plotter

Set Top Box

Power Bank

Power Adaptors

Mobile Phones

Cash Registers

Point of Sale Terminals

Copying Machines

Mail Processing Machine

Postage Machine

Franking Machine

Passport Readers

Smart Card Readers





## TESTING FACILITIES

Audio Video and Electronic Apparatus (Safety Requirement)

IS: 616 / IEC 60065-1

LED/LCD/Plasma TV

Video Games

Amplifiers

Musical Systems

Power Adaptors for  
Audio Video

UPS, Battery & Cells



## TESTING FACILITIES

Electrical Wires, Cables & Conductors (FRLSH)

Energy Meter, Insulators, Lighting Arrestor





## ***TESTING FACILITIES***

### **SAFETY TESTING OF HOUSEHOLD ELECTRIC APPLIANCES (IS 302 1, IEC-60335-1)**



## TESTING FACILITIES

### ➤ ELECTRICAL WIRES & CABLES

1. PVC Insulated unsheathed & sheathed Cables/cords	IS: 694-2010
2. PVC insulated (Heavy Duty) Electric cables.	1554 (Part-1) 1988
3. Cross Linked Polyethylene Insulated PVC Sheathed Cable	7098 (Part-1) 1988
4. Aerial Bunched cables.	IS: 14255 : 1995
Elastomer insulated cables	IS: 9968(pt-1)-1988
5. Welding Cable	IS 9857:1990
Winding Wires For Submersible Motors	IS 8783
6. Motor Vehicle Cables	IS:2465:1984
7. Shot Firing Cables	IS 5950:1984
8. Sheathed Flexible Cables	BS EN 50214:2006
9. Rubber Insulated Cables	BS 5467:1997 IEC 60245-3:1994
10. Electric Cables — PVC Insulated, Armoured Cables for voltages of 600/1000V and 1900/3300 V	BS 6346:1996
11. Power Cables Rated 2000 V or less for the Distribution of Electrical Energy	ANSI/NEMA WC 70-2009 ICEA S-95-658-2009
12. Low Voltage Cables for Automobiles	JIS C 3406:1993
13. Road Vehicles Low Tension Cables	DIN 72551-6:1996
14. High Temperature Electric Wire	JSS 51034:1992

### ALUMINIUM CONDUCTORS FOR OVERHEAD TRANSMISSION PURPOSE

15. Aluminium stranded conductors	IS 398 (Part 1):1996
16. Aluminium conductors, galvanized steel reinforced	IS 398 (Part 2):1996
17. Aluminium Conductors, Aluminized Steel Reinforced	IS 398 (Part 3):1976
18. Aluminium alloy stranded conductors (aluminium magnesium silicon type)	IS 398 (Part 4):1994
19. Aluminium conductors - galvanized steel reinforced for extra high voltage (400 kV and above)	IS 398 (Part 5):1992 (Upto 100 mm <sup>2</sup> )
20. Polymer Pin Insulator	IEC 61109
21. Polymer Disk Insulator	IEC 61109
22. Lighting Arrestor	IEC 6009-4
23.	IS 3070 (P-1 & II)
24. 11Kv G.I. Pin with Nut & Spring Washer	IS 3063 / 1992 IS 1367 (P-8/1983)
25. Copper Purity	191 - 2007

### ➤ ELECTRICAL KITCHEN APPLIANCES

26. Electric Kitchen Machines	IS 302-2-14, IEC 60335 2-14
27. Electric Stoves	IS 2994 IS 302-2-202
28. Domestic Electric Cooking Ovens	IS 5790
29. Single Walled Baking Ovens	IS 8985
30. Cooking Ranges, Hobs, Ovens & Similar Appliances	IS 302-2-6 IEC 60335-2-6
31. Electric Coffee Makers	IS 14144 IEC 60661
32. Toasters, Grills, Roasters & Similar Appliances	IS 1287, IEC 60442 IS 302-2-9, IEC 60335-2-9
33. Microwave Ovens	IS 302 – 2- 25 IEC 60335 – 2- 25
34. Low Speed Food Grinding Machines	IS 7603 IS 302-2-209
35. Domestic Electric Food-Mixers (Liquidizers And Grinders)	IS 4250

### ➤ APPLIANCES FOR SKIN AND HAIR CARE

36. Portable, Hand Held Mains Operated Electric Massagers	IS 7137
37. Appliances For Skin & Hair Care	IS 302-2-23, IEC 60335-2-23
38. Mains Operated Hair Dryers	IS-7154
39. Mains Operated Electric Shavers	IS 5159

### ➤ OTHER HOME APPLIANCES

40. Electric Iron	IS 366, IEC 60311 IS 302-2-3, IEC 60335-2-3
41. Steam Iron	IS 6290 IS 302-2-205
42. Electric Radiator / Room Heater	IS 369, IEC 60675 IS 302-2-30, IEC 60335-2-30
43. Hot Air Fans	IS 4283
44. Appliances for Heating Liquids	IS 302-2-15, IEC 60335-2-15
45. Stationary Storage type Electric Water Heater	IS 2082, IEC 60379 IS 302-2-21, IEC 60335-2-21
46. Electric Instantaneous Water Heater	IS 8978 IS 302-2-35, IEC 60335-2-35
47. Electric Immersion Water Heater	IS 368 IS 302-2-201, IEC 60335-2-74
48. Mineral Filled Sheathed Heating Elements	IS 4159, IEC 60335-2-73
49. Cartridge Type Heating Elements (Non-Embedded Type)	IS 3724
50. Solid Embedded Type Electric Heating Elements	IS 4158
51. Thermostats For Use With Electric Water Heaters	IS 3017

## TESTING FACILITIES

S. No.	Products/ Materials	Specifications
52.	Flexible Electric Heating Pads For Domestic Use	IS 5161
53.	Domestic Electric Cloth Washing Machines	IS 14155, IEC 60456 IS 302-2-4, IEC 60335-2-4 IS 302-2-7, IEC 60335-2-7
54.	Mains Operated Clock	IS 302-2-26 IEC 60335-2-26

### ➤ FAN AND MOTORS

55.	Electric Ceiling Fan & Regulators	IS 374
56.	Electric Table type fans and Regulators	IS 555
57.	Single Phase small AC electric motors	IS 996
58.	Propeller Type AC Ventilating Fans	IS 2312 IEC 60665
59.	Portable Electric Motor Operated Tools	IS 4665 (P-I) IS 4665 (P-II)
60.	Pumps – Regenerative for Clear, Cold Water	IS 8472

### ➤ ENVIRONMENTAL TESTING

61.	Degrees of Protection provided by Enclosures for Rotating Electrical Machinery	IS/IEC 60034 (P-5)
62.	Degrees of Protection provided by enclosures of Electrical Equipment (IP Code) Cold Test – IS 9000 (Part 2 / Sec 1 to 4) / IEC 60068 – 2 – 1 Dry Test – IS 9000 (Part 3 / Sec 1 to 5) / IEC 60068 – 2 – 2 Damp Heat Test (Steady State) Damp Heat Test (Cyclic)– IS 9000 (Part 4)/ IEC 60068–2–78 IS 9000 (Part V/Sec 1 to 2)/IEC 60068–2–30	IS/IEC 60529

### ➤ LAMPS

63.	Self Ballasted LED – Lamps For General Lighting Services Part 1 Safety Requirements	IS 16102 (Part 1) IEC 62560
64.	Self Ballasted LED Lamps for General Lighting Services Part 2 Performance Requirements	IS 16102(Part 2) IEC 62612
65.	GLS Lamps	IS 418, IEC 60064 IS 15518, IEC 60432
66.	Tubular Fluorescent Lamps	IS 2418 (P-1)
67.	High Pressure Mercury Vapour Lamps	IS 9900 (P-1)
68.	High Pressure Sodium Vapour Lamps	IS 9974
69.	Self Ballasted Lamps For General Lighting Services	IS 15111 (P-1),IEC 60968 IS 15111 (P-2),IEC 60969
70.	Single Capped Fluorescent Lamps	IS 15687 (P-1),IEC 61199 IEC 60901
71.	Double Capped Fluorescent Lamps	IEC 61195 IEC 60081
72.	Discharge Lamps Excluding Fluorescent Lamps	IEC 62035
73.	Auxiliaries for Lamps Starting Devices (other than glow Starters)	IS 15974 / IEC 60927
74.	Metal Halide Lamps–Performance Specifications for Aircraft Lamps	IS 16148 / IEC 61167 IS 8685 / IEC 60434

S. No.	Products/ Materials	Specifications
75.	Lamps for Railway Signaling	IS 9589
76.	Method of Measurement of Lumen Maintenance of Solid State Light(LED) Sources	IS 16105
77.	Method of Electric and Photometric of Solid State Lighting (LED) Products	IS 16106
78.	Photo Biological Safety of Lamps and Lamp Systems	IS 16108

### ➤ LUMINARIES

79.	LED Luminaire	IS 16107 – 1,IEC 62722–1 IS 16107 ( P2 / Sec 1) IEC 62722 – 2-1
80.	LED Modules for General Lighting – Safety Requirements.	IS 16103 (Part 1) IEC 62031
81.	LED Modules for General Lighting – Performance Requirements	IS 16103 (Part 2) IEC 62717
82.	Portable Lamp Stands and Brackets	IS 3481
83.	Luminaries	IS 10322 (Part 1, 2, 3 ,4) IS 10322 (P-5/Sec-1) IEC 60598 IEC 60598-2-1 Section-1, General Purpose Luminaires IS 10322 (P-5/Sec-2) IEC 60598-2-2 Section-2, Recessed Luminaires IS 10322 (P-5/Sec-3) IEC 60598-2-3 Section-3, Luminaires for Road & Street Lighting IS 10322 (P-5/Sec-4) IEC 60598-2-4 Section-4, Portable General Purpose Luminaires IS 10322 (P-5/Sec-5) IEC 60598-2-5 Section-5, Flood Lights
84.	Electrical and Photometric measurements of solid state lighting products	IEC LM-79
85.	Measuring Lumen Maintenance of LED light sources	IEC LM-80

### ➤ ENERGY METERS

86.	AC Watt-Hour Meters (Single & Three Phase) Electro Mechanical Meters	IS 13010, IEC 62053-11
87.	AC Static Watt Hour Meters (Single & Three Phase) CT- Operated Static Watt Hour Meters (Single & Three Phase)	IS 13779, IEC 61036 IS 14697, IEC 60687 IEC 62052-11 IEC 62053-22 IEC 62053-23

### ➤ AUDIO VIDEO AND ELECTRONIC APPARATUS

88.	LED/LCD/Plasma TV Video Games, Amplifiers Musical Systems Power Adaptors for Audio Video	IS: 616 / IEC 60065-1
89.	Information Technology Equipments	IS:13252 / IEC : 60950-1
90.	Railway Carriage Fans	IS:6680
91.	Electronic Equipment used on Rail vehicles	IEC 60571
92.	Shock & Vibration Test	BS EN 61373-2010





## AMIT TEST AND CALIBRATION CENTRE

### Laboratory-1

Address: 19/168, Sarai Rohilla, Old Rohtak Road,  
Near Shastri Nagar, Metro Station, Delhi-110035  
Tel: 011-23643995, Fax: 011-23643992  
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Email: amittestcc@gmail.com, info@atncc.in

### Laboratory-2

Address: Kh. No. 45/14, 17 & 45/6 &  
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