

# Intertek...Lab role in market transformation

Madhumita Guha  
Country Marketing Head  
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....2000 shifts...

536...501...589...310....

# India First Independent Balanced Calorimeter for AC testing



# Performance Testing - Balanced Ambient Calorimeter



Valued Quality. Delivered.

- Commissioned India's First Balanced Ambient Calorimeter for Testing Room Air-conditioners upto 3 Tr
- Accredited as per ISO 17025 by NABL
- Performance testing as per Indian, Australian, European, American and Saudi Arabian Standards.



- First Independent Accredited Laboratory in the country for Frost Free Refrigerators and Direct Cool Refrigerators.
- Supporting BEE's Energy Label Program
- Performance testing and Volume Measurement as per Australia, Europe and Indian Standards
- Asia's only laboratory approved by WHO for Vaccine cooler testing

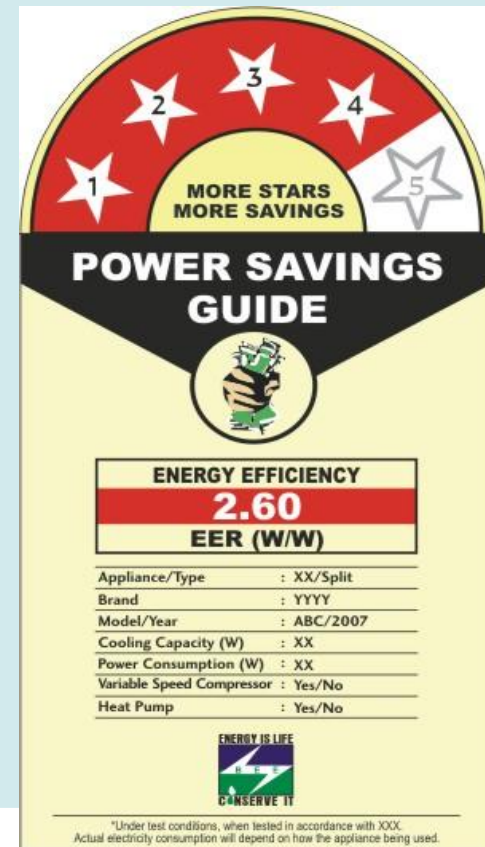


# Partnering the S&L program



Valued Quality. Delivered.

Working with Bureau of Energy Efficiency – fast tracked the S&L program



Wide variation in energy consumption by products

Information on energy conservation not easily available

Continued purchase of inefficient products

No regulations

Claims were suspect

Regulations in place

Voluntary and Mandatory

Manufacturers declaration close

20-30 % improvement

Other related industry benchmarks also improving

Every domain raising the bar



# Accelerating Market Transformation...

## State of Play...today



Valued Quality. Delivered.

Product	Status	Accreditation
AC	Mandatory	NABL
FF Refrigerators – Mandatory DC Refrigerators – Voluntary	Mandatory	NABL
CTV	Voluntary	NABL
Computer	Voluntary	NABL, Energy Star
Electric Water Heater	Voluntary	NABL

**The only lab in India to Get Energy Star EPA accreditation for Computers**

Set Top Box

Washing Machine

Voltage Stabilizer

Inverter

UPS

LPG Gas Stove

Special Support for SEED Program Participation for CTV

SEED program

# Capacity in our Labs



Valued Quality. Delivered.

	Product	Testing Standards	Test required for Standard & Labeling	Lab capability to carry out tests ( Y/ N)	NABL Accreditation	Total testing time	Number of samples tested in Month
1	Frost-free refrigerator	IS 15750:2006	Pull down test ( and operating temperature performance test as applicable )	Y	YES	3 DAYS	12 samples
			Rated energy consumption	Y	YES	7 DAYS	
			Rated volume	Y	YES	5 DAYS	
2	Room air conditioners	IS 1391 Part I & II	Cooling capacity rating	Y	YES	8 HOURS	25 samples
			Heat pump heating capacity rating	Y	YES		
			Power consumption ratings for cooling/heating	Y	YES		
			Maximum operating conditions test	Y	YES	14-16 HOURS	

# Capacity in our Labs



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	Product	Testing Standards	Test required for Standard & Labeling	Lab capability to carry out tests ( Y/ N)	NABL Accreditation	Total testing time	Number of samples tested in Month
3	Direct Cool	IS 1476	Pull down test ( and operating temperature performance test as applicable )	Y	YES	3 DAYS	12 samples
			Rated energy consumption	Y	YES	7 DAYS	
			Volumetric capacity	Y	YES	5 DAYS	
4	Stationary Storage Type Water Heaters	IS 2082 : 1993	Power consumption	Y	YES	8 HOURS	20 samples
			Standing loss per 24hour	Y	YES		
			Verification of rated capacity	Y	YES		

# Capacity in our Labs



Valued Quality. Delivered.

	Product	Testing Standards	Test required for Standard & Labeling	Lab capability to carry out tests ( Y/ N)	NABL Accreditation	Total testing time	Number of samples tested in Month
5	Laptop/ Notebooks ( Computers)	IS 14896:2001, IS 13252, IEC 60950,62018					60 samples
6	Colour Tv	IS 3384 : 1992 ( Part I & II), IS 13900 : 1993, IEC 62087,	Standby power loss				65 samples
			Black level video signal				
			White level video signal				
			Full Filled colour bar video signal				
			On mode (average) power consumption				

Commercial Food Service Equipment	Computers & Electronics	Heating & Cooling Products
<p>Commercial Kitchen Package Commercial Dishwashers Commercial Fryers Commercial Griddles Commercial Hot Food Holding Cabinets Commercial Ice Machines Commercial Ovens Commercial Refrigerators and Freezers Commercial Steam Cookers</p>	<p>AV; TVs, Imaging Equipment <b>Battery Chargers</b> Combination Units (TV &amp; DVD, VCR &amp; DVD) Computers and Displays Cordless phones Digital to Analog Converter Box Enterprise Servers <b>External Power Adapters</b> Set top boxes and Cable boxes</p>	<p><b>AC, Central and Room Boilers and Furnaces</b> <b>Dehumidifiers</b> <b>Fans, ventilating</b> <b>Heat Pumps, Air source, Geothermal</b> <b>Home Sealing - Insulation</b> <b>Light Commercial Heating and Cooling</b> <b>Programmable Thermostat</b> <b>Room Air Cleaners and Purifiers</b></p>
Appliances (Residential)	Building Products	Lighting & Fans
<p>Clothes Washers, Dishwashers Dehumidifier Reefers/Freezers Room Air Cleaners Water Coolers</p>	<p>Home Sealing - Insulation &amp; Air Sealing Roof Products <b>Windows, Doors, &amp; Skylights</b></p>	<p><b>Comm/Res LED Lighting</b> <b>Decorative Light Strings</b> <b>Fans, ceiling (including light kits)</b> <b>Light Bulbs, CFL, Light Fixtures (Res)</b> <b>Fluorescent Lamp Ballasts</b></p>
Commercial Appliances	Plumbing	Products in Development
<p>Commercial Clothes Washers Vending Machines Water Coolers</p> <p>27 labs across all product categories</p>	<p><b>Water Heater Gas condensing</b> <b>Water Heater Heat Pump</b> <b>Water Heater High Efficiency Gas Storage</b> <b>Water Heater Solar</b> <b>Water Heater Whole Home Gas Tankless</b></p>	<p>Climate Controls Data Center Storage, Small Network Equip Heat / Energy Recovery Ventilators Integral LED Lamps Lab Grade Reefers and Freezers Pre-Rinse Spray Valves Uninterruptible Power Supplies</p>

- Support beyond Testing , in development of testing Protocols
- - Marketing support to BEE for education retailers/manufacturers
- Bringing Global Experiences.
- Taking labs to the global accreditations such as Energy Star, NrCan, ErP etc. to facilitate manufacture for single stop shop for Energy.
- Participation in IECEE C scheme for Energy Testing as it is included recently under CB.

Intertek is very committed to support the S&L program and enhance lab capacity and product testing in line with BEE





Intertek

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