

TEST FACILITIES AT CQA(GS),KANPUR LAB
STORES DTE

Name of the Estt with address, Name of Nodal Officer and Contact No	S No	Testing Facilities Available	Range of Test Equipment
Controllerate of Quality Assurance (General Stores), DGQA Stores Complex, Ashok Path, Cantt Kanpur - 208004 Nodal Officer- Lt Col Praveen S DC Lab Contact No.- 9935413468 E-Mail-cqagsknp-dgqa@nic.in	<u>Physical</u>		
	1.	Linear and angular measurements (caliper and micrometer)	Linear – 0-300 mm Angular – 0.0001 mm
	2.	Capacity test	Upto 200 ltrs
	3.	Tensile testing (Digital tensometer)	0 - 2000 kgs
	4.	Shock testing machine for mantles	999 shocks
	5.	Thread and pitch measurements (Zeiss large tool maker's microscope)	0.0001 mm
	6.	Warpage testing (Warpage tester)	0 - 20 degrees
	7.	Distortion testing (Distortion tester)	0 – 10 mm
	8.	Vickers hardness testing (Vickers hardness tester)	135 – 800 VHN
	9.	Load test	0 - 100 kN
	10.	Drop test	As required
	11.	Performance test	“
	12.	Torsion test (Torque wrench tester)	0 – 200 kgf-m
	13.	Hydraulic pressure test	0 -50 kg/cm ²
	14.	Mean Horizontal luminous intensity for lanterns (Abadys Flicker meter)	5 candella for lantern and 200 candella for petromax
	15.	Light efficiency	Not less than 0.25 for lantern and 3 for petromax
	16.	Storm proofness for lanterns and hurricane lamps	70 kmph
	17.	Tensile testing of Fabric	0 -2250 N
	18.	Rigidity test for helmets	0 – 100 kgs
	19.	Performance and impact test for suitcases	As required
	20.	Sub-zero temperature test (Deep freezer)	0 - (-) 50 degrees
	21.	Button load test	Upto 30 kgs
	22.	Testing of snow goggles (UV spectrophotometer)	
	23.	Melting point of polythene films	360 degrees Celsius (max)
	24.	Dart impact test for polythene films (Dart impact tester)	55 gms – 300 gms
	25.	Shore 'A' hardness test	0 – 100 shore A
	26.	Compression test for coir mattress	40 %
27.	Grading of abrasive papers (Sieve shaker)	ASTM 20 – 325 mesh	

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	29.	Tensile strength paper (tensile tester)	0 - 500 N	
	30.	Bursting strength test of corrugated boxes	0 – 40 kg / sqcm	
	31.	Puncture test of corrugated boxes	0 - 2600 BU	
	32.	Timber identification	FRI handbook	
	33.	Tensile test of plywood	0 – 2000 kgs	
	34.	Wet and dry glue strength of plywood	0 – 2000 kgs	
	35.	Mycological test for plywood	As per IS 1734 (pt VII)	
	36.	% moisture content by oven dry method for various handles / timber pieces (hot air oven)	Ambient to 200 degrees	
	37.	Moisture content of timber and paper products (Cobb's tester)	Corrugated boxes – 30 minutes Paper – 60 secs	
	<u>Chemical</u>			
	38.	Staining test	Stainless steel utensils	
	39.	Chemical analysis of certain ferrous & non - ferrous samples	Carbon steel, Low alloy steel and high alloy steel, copper alloys, aluminium alloys and silver alloys	
	40.	Thickness of coating (BNF jet apparatus)	Copper and nickel	
	41.	Identification of nature of coating	Zinc, tin, cadmium, nickel, copper and chromium	
	42.	pH test (Digital pH meter)	1.0 – 14.0 pH	
43.	Identification of cresot oil (UV lamp with dark box cabinet)			
44.	Identification of preservative treatment in timber and timber products	Borax, boric acid, copper and chromium		