



Tti Testing Laboratories

31 YEARS OF EXCELLENCE IN TIC INDUSTRY

ISO/IEC
17020
ACCREDITED

PSQCA
Registered
INSPECTION

AQL
Z1.4
LEVEL II



DIVISION 11 · TTI INSPECTIONS PVT LTD

Inspections & audits

Securing global supply chains and minimizing risk

Independent, third-party quality inspection for quality control, risk reduction, and confident supply chain decisions, from raw material evaluation to shipment readiness.

Softlines

Hardlines

Food & Agriculture

Technical Audits

Compliance Audits

11786 001

www.ttilabs.net

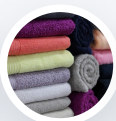


Independent, third-party inspection

A test tells you what a product is made of. An inspection tells you whether the factory made it correctly. These are two different services, and together they give a buyer complete confidence in what they receive.



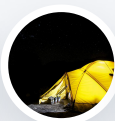
Footwear



Towel



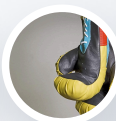
Caps



Tent



Ceramics



Sports



8

INSPECTION STAGES, SOFTLINES

24_h

BOOKING

24_h

REPORT AFTER INSPECTION



GENERAL INSPECTION LEVEL

1,500₊

GLOBAL BRANDS TRUST TTI

31

YEARS OF EXCELLENCE

WHAT WE INSPECT

Garments

Fabric

Denim

Home Textile

Towel

Socks

Caps

Uniform

Workwear

Gloves

Leather

Sports

Footwear

✓ Tent

✓ Hard Goods

Food

Agriculture

Pharmaceuticals

Nutraceuticals

Cosmeceuticals

PNAC IB-006 · ISO/IEC 17020 · TYPE A

Pakistan's first PSQCA-registered inspection body with ISO/IEC 17020 accredited scope



ISO/IEC 17020 Accredited Inspection Body

PNAC IB-006

- ✓ Type A inspection body under ISO/IEC 17020:2012
- ✓ Valid until 12 September 2027, with regular surveillance
- ✓ Tti Inspections Pvt Ltd, a separate company within the Tti Labs group
- ✓ Accredited by PNAC, a signatory to the ILAC MRA



PSQCA registered inspection body

From the private sector

- ✓ Accreditation first granted by PNAC on 13 September 2012
- ✓ ISO/IEC 17020: first in Pakistan for textiles, food and cosmeceuticals
- ✓ Full-time inspectors across Pakistan
- ✓ Booking within 24 hours; report in the next 24 hours after inspection

Three standards, three documents

Holding both the inspection and the laboratory accreditation in one organisation means a question raised during an inspection can travel into a test report without changing supplier.

ISO/IEC

17020

Inspection bodies

Inspection and verification reports on goods, processes or sites

Tti Inspections Pvt Ltd
PNAC IB-006

ISO/IEC

17025

Testing and calibration laboratories

Test reports for specific methods and parameters

Tti Testing Laboratories
PNAC LAB 022

ISO/IEC

17065

Certification bodies

Certificates of conformity for products, processes or services

A separate appointment
Not an inspection or test report

What the accreditation covers

Read the scope, not the badge: it names the work a body is accredited to do.

ITEMS INSPECTED	TYPE AND RANGE OF INSPECTION	METHODS AND PROCEDURES
MANUFACTURED GOODS		
Textiles and textile products	Pre/post shipment inspection	ASTM D5430 · fabrics
	Loading supervisions	
	Final random inspection (FRI)	ISO 2859-5 · garments
	Fabric inspection (FI)	
	During production inspection (DPI)	ANSI Z1.4-2008
Food and cosmeceutical products	Pre/post shipment inspection	
	Visual inspection	GAFTA 124
	Weight	
	Quality	
	Quantity	
	Marking	Tti/QMS/SOP-24
	Packing and loading	

Source: PNAC accreditation document IB-006, Tti - Inspections (Pvt.) Ltd, Lahore, dated 13-12-2024.

Commodities coverage

ACROSS ALL INSPECTION SERVICES

Softlines 09	✓ Textiles & raw materials	✓ Apparel & clothing	✓ Home & living textiles
	✓ Footwear	✓ Leather products	✓ PPEs
	✓ Consumer goods		
	✓ Tissue paper	✓ Sports & recreation	
Food & agriculture 08	✓ Fresh produce	✓ Processing & packing facilities	
	✓ Grains & bulk commodities	✓ Cold chain & storage	
	✓ Meat & poultry handling	✓ Dairy processing	✓ Edible oil production
	✓ Export consignments		
Hardlines 04	✓ Ceramics	✓ Furniture	✓ Tent
			✓ Accessories

Softlines

8 stages

AQL-based

Eight stages, one production run

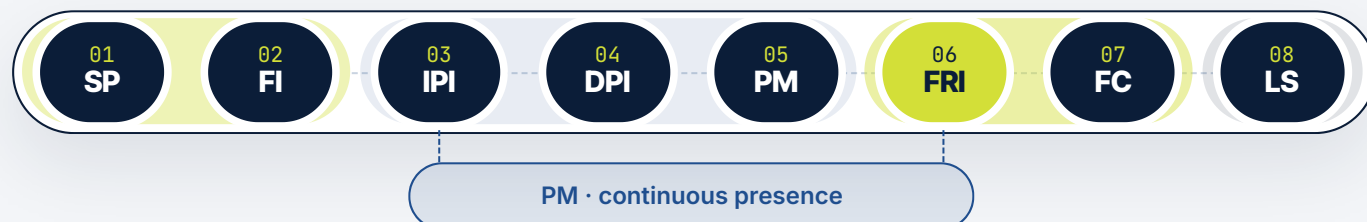
Structured and customized quality control to ensure consistency, compliance, and traceability. Each stage answers a question the others cannot, so a programme can be built around production moments rather than one final gate.

BEFORE PRODUCTION

IN PRODUCTION

PACKED

SHIPMENT

01 · RANDOM
SAMPLING**SP**Sample sealing /
picking

02 · BEFORE CUTTING

FI

Fabric inspection

03 · AT 20%
COMPLETION**IPI**Initial production
inspection04 · 20% DONE,
PACKING STARTS**DPI**During production
inspection05 · CONTINUOUS
PRESENCE**PM**Production
monitoring06 · FULLY PACKED
GOODS**FRI**Final random
inspection

07 · UNIT BY UNIT

FC

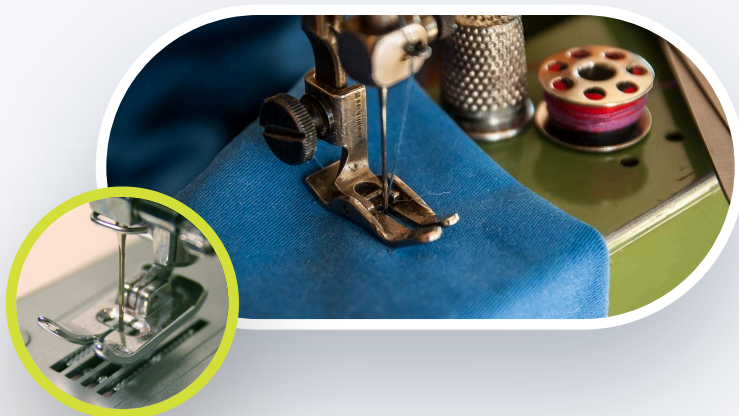
100% full check

08 · AT THE
CONTAINER**LS**

Loading supervision

WHAT EACH INSPECTION CHECKS

From the first sample to the sealed door



01 SP Sample sealing / picking

Do the samples represent the bulk?

Random sampling for testing. Samples sealed with proper identification for lab submission.

02 FI Fabric inspection

Visual, dimensional, colour fastness, fabric strength. ASTM D5430-13, 4-point grading.

03 IPI Initial production inspection

Is the process producing to specification?

Raw material check, production line evaluation, defect prevention.

- Early defect detection
- Workmanship and construction review
- Process consistency check

04 DPI During production inspection

Is the running lot drifting, and can it still be corrected?

Process evaluation, random sampling, real-time status.

- Workmanship consistency
- Measurement and specification checks
- Inline QC validation

05 PM Production monitoring

Daily reporting on quality issues, bottlenecks, and progress.

06 FRI Final random inspection

Does this lot meet the order under AQL sampling?

AQL ANSI/ASQ Z1.4-2008. C 0 / Mj 2.5 / Mi 4.0, Level II.

- AQL sampling methodology
- Defect classification and evaluation
- PASS / FAIL / HOLD decision

07 FC 100% full check

Does every single piece meet the requirement?

For high-risk products. Detailed defect reporting. Custom criteria applied.

- Suitable for high-risk or sensitive orders
- Zero-defect requirement support

08 LS Loading supervision

What was loaded, and in what condition?

Container condition check, load witness, marking and labelling check, seal at completion.

- Quantity and assortment check
- Safe stacking and handling

Also offered

Pre-production (PPI) and pre-final (PFI) inspections · customizable inspection checklists

ANSI/ASQ Z1.4-2008 · GENERAL INSPECTION LEVEL II

The verdict comes from sampling, not opinion



AQL, the Acceptable Quality Limit, is the global standard for random sampling of packed shipments. The AQL number sets the maximum acceptable defect rate; if the randomly pulled sample exceeds that rate, the shipment fails. Tti operates at AQL 2.5 for major defects, with zero tolerance for critical ones.

Accept or reject, per defect class

AQL BY CLASS · C 0 / MJ 2.5 / MI 4.0

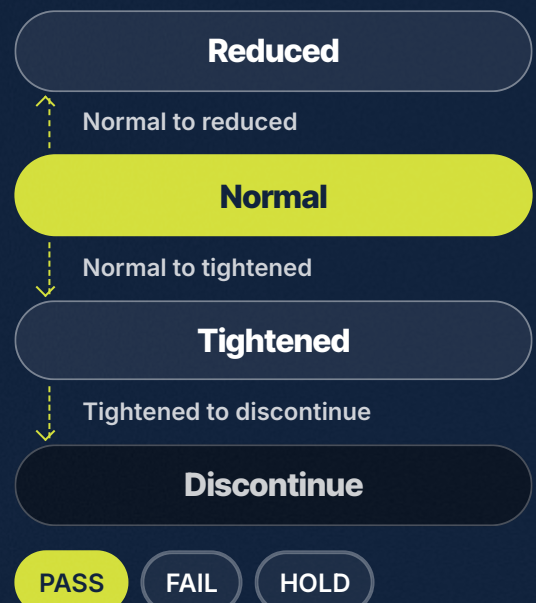
0	Critical Zero tolerance	Accept only if none found	Any critical defect fails the lot
2.5	Major Most international buyers	Accept: found up to Ac	Reject: Re or more found
4.0	Minor General level II	Accept: found up to Ac	Reject: Re or more found

Schematic. Ac (accept number) and Re (reject number) come from the standard's tables for the lot size, the inspection level and the AQL. A lot fails when the defects found in a class exceed that class's accept limit.

Five inputs decide the result

Lot size	Packed cartons or pieces presented	Sets the sample size
AQL level	Agreed at order stage, per defect class	Sets accept and reject limits
Defect class	Critical, major, minor definitions	Decides the column
Inspection level	General level, typically II	Adjusts sample size for the same lot
Switching rules	Prior results on the same supplier	Moves normal, tightened, reduced

Switching rules



Seven checks on every packed lot



 Quantity	100% carton-packed per packing list; random carton selection per AQL level
 Product conformity	Shade (limit 4 and above), material and style against the approved reference sample
 Marking	Labels, shipping marks and barcodes, all verified
 Measurements	3 pieces per size, all colours; tolerance per client requirements
 Workmanship	Stitching, appearance, presentation and a functional check
 Packing	Assortment, placement, dimensions and carton integrity
 Closing meeting	Corrective action plan requested; inspector signature obtained from the factory

FABRIC INSPECTION · ASTM D5430-13

4-point fabric grading

The ASTM method gives a numerical grade to fabric from a visual inspection, for delivery and acceptance against requirements agreed by purchaser and supplier. It offers three point-assignment options; in a dispute, both sides should use the same one.

4 & above

Shade limit

3 pcs

Per size, all colours

Specialized inspection services

01

Sample evaluation & product review

Pre-production samples and prototypes, before bulk

02

Defect analysis & root cause

Traced to process, material or workmanship

03

Post-delivery inspection support

Independent evaluation in disputes or complaints

04

Product labeling compliance

Labeling, marking and packaging details



LS · CONTAINER LOADING SUPERVISION

The last check before the seal

Loading supervision verifies that goods are loaded correctly, safely, and in accordance with shipment requirements, to prevent damage and discrepancies. It establishes what physically entered the container, a fact no earlier inspection can.

01

Container condition

Checked before stuffing starts

02

Quantity & assortment

Counted against the packing list

03

Load witness

The loading process, observed

04

Safe stacking & handling

To prevent damage in transit

05

Marking & labelling

Checked on cartons as they are stowed

06

Seal at completion

Seal integrity confirmed

What the inspection report carries

BUILT TO HOLD UP IN A CLAIM



Lot identification



Sample size and AQL basis



Classified defect log



Timestamped photographs



Measurements against specification



Packing and carton condition



Quantity and assortment count



Pass or fail, with the arithmetic



FOOD INSPECTION SERVICES

From the floor to the export consignment

For food manufacturers, suppliers, and exporters, operational integrity is the first line of defense against market rejection. On-site due diligence identifies systemic vulnerabilities directly on the production floor, and checks that facility hygiene practices align with global food safety mandates.



✓ Fresh produce

✓ Grains & bulk commodities

✓ Cold chain & storage

✓ Meat & poultry

✓ Dairy

✓ Edible oil

✓ Export consignments

Food inspection stages

PSI Pre-shipment

SP Sample pickup

VI Visual inspection

GQA Grain quality

LS Packing & loading supervision

Also: cold chain & storage · food hygiene

ON OUR ACCREDITED SCOPE · IB-006

Food and cosmeceutical products

Pre/post shipment inspection: visual inspection, weight, quality, quantity, marking, packing and loading inspection.

GAFTA 124

Tti/QMS/SOP-24

GAFTA SAMPLING RULES NO. 124

From increment to sealed sample

01 **Increment** One draw, up to 1 kg02 **Lot sample** Increments of a lot, combined03 **Bulk aggregate** All increments, homogenised04 **Contractual** Divided, sealed, 3 kg or more each

GAFTA 124 · GOODS IN BAGS

Bags sampled at random

Under 100 bags

At least 20 bags

100 to 10,000 bags

At least 50 bags

Over 10,000 bags

0.5%, one in 200

Each bag speared three times: top, middle and bottom.

Export checks

PPI · DUPRO · FRI · LS, verifying container hygiene and cold-chain integrity

SUPPLIER COMPLIANCE

Independent audits of systems & processes

An audit looks at how a unit is run, not at what came off the line this month. Our specialists analyze results, identify underlying causes, and provide detailed recommendations.



Factory quality assessment

Ability to meet specifications, quality and delivery expectations before order placement: capacity, machinery, workforce competency, QC systems, documentation.

Buyer protocols · ISO 9001 principles



Traceability audit

Product and material traceability from raw material sourcing to finished goods: documentation, batch identification, labeling, records.

ISO 22005 · GFSI frameworks



Lab technical audit

Technical capability of testing laboratories: equipment calibration, method validation, personnel competency, QC procedures, data integrity.

Benchmarked against ISO/IEC 17025



Mystery shopping audit

Unbiased assessment of customer experience, store operations and brand compliance at retail points.

Brand guidelines · retail SOPs

Compliance & sustainability audits

8-POINT AUDIT PORTFOLIO

Environmental **ISO 14001**

Social **SA8000**

Organic **GOTS & OEKO-TEX**

GHG inventory **ISO 14064**

Higg FEM **Verification**

Carbon footprint **Scope 1/2/3**

Chemical management **ZDHC / MRSL**

Circular economy **RCS / GRS**

Tti reports what it finds on the goods presented; it does not certify a supplier's management system. Photography: CHUTTERSNAIP, Nick de Partee, Bent Van Aeken, Kaja Reichardt / Unsplash; Buoyance, Erbs55, Gentelle_Linen, Kranich17, PNGix, Papsiy, Pexels, PublicDomainPictures, andreas160578, annapictures, bhossfeld, huntlh, iinwibisono, jackmac34, jarmoluk, jaymethunt, kaboompics, lucasgeorgewendt, matthiasboeckel, pictavio, tunaolger, tylermike525, wnk1029 / Pixabay. Sources: PNAC IB-006; GAFTA Sampling Rules No. 124 (2025); ASTM D5430-13.



Tti Testing Laboratories

We identify gaps in processes, documentation, and compliance, enabling corrective actions at source and strengthening supplier accountability.

ISO/IEC 17020 · PNAC IB-006

PSQCA Registered Inspection Body

ISO/IEC 17025 · PNAC LAB 022

31 Years of Excellence in Quality Assurance

111 786 001

www.ttilabs.net



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Liaison points in Multan and Kasur.